



BUILT-UP ROOFING

SPECIFICATION BOOK

BUILDING PRODUCTS LIMITED





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WINNIPEG, MAN.

PONT ROUGE, QUE.

QUARRIES

MADOC, ONT.

HAVELOCK, ONT.

PITCH ROOFS
ASPHALT COMPOUND
ROOFS
(S
SEWAGE
ROOFS
EDGE)
REQUIREMENTS FOR
BUILT-UP ROOFS
DETAILS FOR
BUILT-UP ROOFS
(ROOF INSULATION)
SPECIFICATIONS
FOR APPLYING
BUILT-UP ROOFS

FOREWORD

The Built-Up Roof Specifications that follow have been specially prepared to be of assistance to those responsible for the specifying and application of Built-Up Roof work. We believe these Specifications are sufficiently varied to meet today's general construction demands. However, should you be confronted with Roofing Problems not covered by any of the Specifications contained in this book, our Specification Department will be pleased to co-operate intelligently with you on any Roofing Problem.

BUILDING PRODUCTS LIMITED





HOW BUILDING PRODUCTS LIMITED SERVES YOU



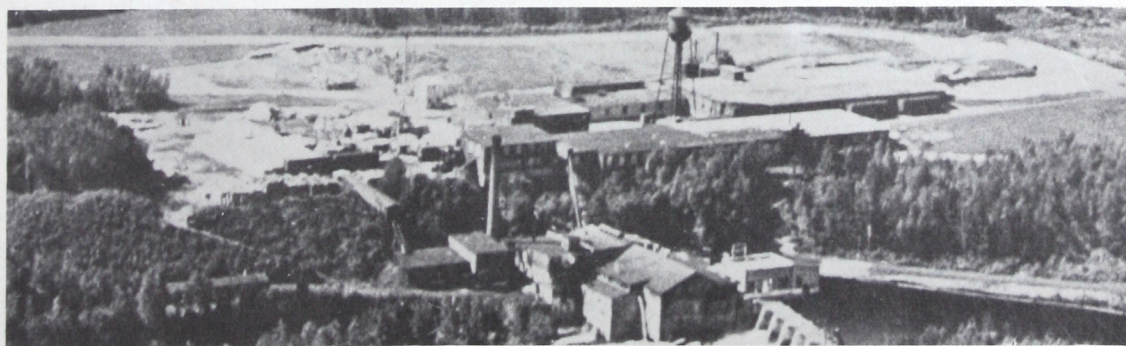
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WINNIPEG, MAN.
Office, Roofing and Siding Factory,
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A NATIONAL ORGANIZATION SERVICING THE
CANADIAN CONSTRUCTION INDUSTRY

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PITCH ROOFS
ROOFS
ROOFS
BUILT-UP ROOFS
BUILT-UP ROOFS
SPECIFICATIONS
BUILT-UP ROOFS



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BUILDING PRODUCTS LIMITED

BUILT-UP ROOFS

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BUILDING PRODUCTS LIMITED SPECIFICATIONS

SECTION 1

TARRED FELT & COAL TAR PITCH ROOFS

PITCH ROOFS

ASPHALT COMPOUND
ROOFS

ROOFS

BUILT-UP ROOFS

BUILT-UP ROOFS

SPECIFICATIONS

BUILT-UP ROOFS

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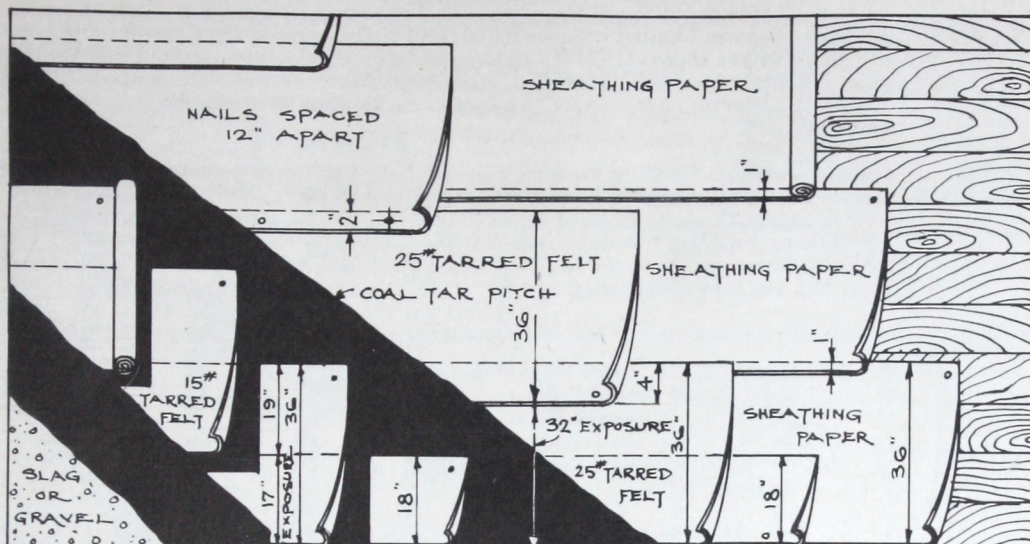
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COAL TAR PITCH AND TARRED FELT GRAVEL OR SLAG FINISH ROOF



For Use Over Wood Decks and Precast Gypsum Slabs
For inclines not exceeding 2" in 1'

BONDED FOR 10 YEARS

ROOF DECK.

The roof deck shall be of seasoned lumber, firm, smooth and free from loose boards, large cracks or knot holes, and free from loose materials. If roof deck is inclined, it shall be properly graded to outlets. Where deck is of gypsum, all joints between slabs shall be properly grouted.

FIRST.

Lay one (1) thickness of B.P. No. 2 Dry Sheathing, lapping the sheets not less than one (1) inch, and nailing as often as required to hold in place. Where deck is of gypsum, dry sheathing may be omitted.

SECOND.

Over the entire surface lay one (1) ply of B.P. 25# Tarred Felt, lapping each sheet four (4) inches over preceding one, and nail along lapped edges, nails to be spaced not more than twelve (12) inches apart. Felt shall be turned up all walls and vertical surfaces, not less than four (4) inches.

THIRD.

Coat the entire surface uniformly with B.P. Coal Tar Pitch.

FOURTH.

Over the entire surface lay two (2) plies of B.P. 15# Special Tarred Felt, lapping each sheet nineteen (19) inches over preceding one, mopping with B.P. Coal Tar Pitch the full nineteen (19) inch lap on each sheet, so that in no place shall felt touch felt. These sheets shall be nailed not more than twenty-four (24) inches apart along upper edge of sheet, so that all nails will be covered by not less than two (2) plies of felt.

FIFTH.

Over the entire surface pour from a dipper a uniform coating of B.P. Coal Tar Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel, or not less than three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter inch ($\frac{1}{4}$ ") to five-eighth ($\frac{5}{8}$ ") inch in size, dry and free from dirt.

GENERAL.

The felt shall be laid without wrinkles or buckles, the felt broomed into the pitch, while hot, with a stiff push broom. Not less than one hundred and twenty-five (125) pounds of pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited, who shall furnish a Building Products Limited Guaranty Bond covering a period of ten (10) years from date of completion in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its ten (10) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more, where its inspection service is available, provided the roof is applied in strict accordance with the above specification, by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited Built-Up Tarred Felt and Pitch Roofing with Gravel Finish (for use over wood decks and precast gypsum slabs) laid in strict accordance with Building Products Limited Specification No. 1G, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for ten (10) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

1 layer B.P. No. 2 Dry Sheathing.....	4 lbs.
1 ply B.P. 25# Tarred Felt.....	27 "
2 plies B.P. 15# Special Tarred Felt.....	33 "
125 lbs. B.P. Coal Tar Pitch.....	125 "
400 lbs. Roofing Gravel.....	400 "
1 lb. Roofing Nails.....	1 "

Total Weight of Finished Roof..... 590 lbs.

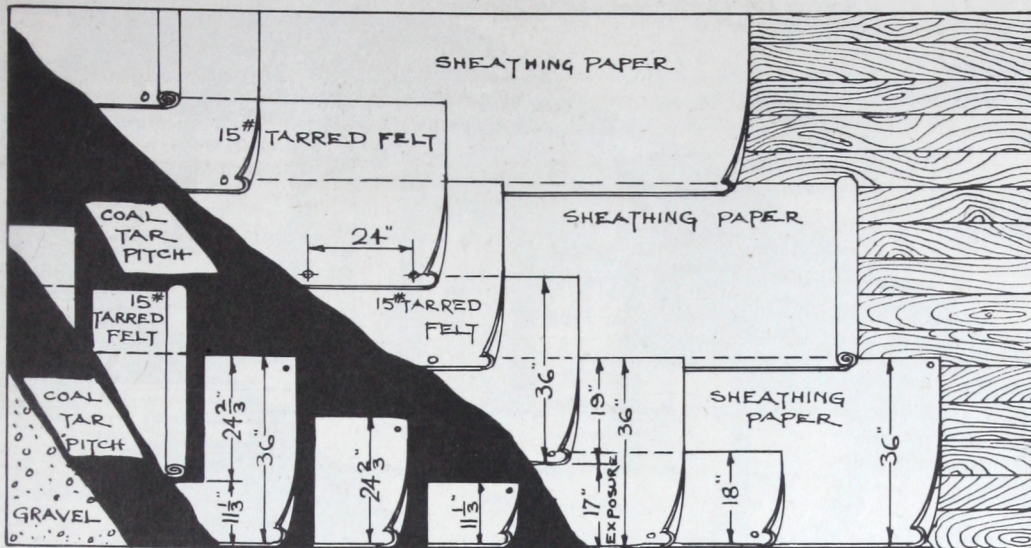


BUILDING PRODUCTS SPECIFICATION

Specification

No. 3G

COAL TAR PITCH AND TARRED FELT GRAVEL OR SLAG FINISH



**For Use Over Wood Decks and Precast Gypsum Slabs
For inclines not exceeding 2" in 1'**

BONDED FOR 20 YEARS

- ROOF DECK.** The roof deck shall be of seasoned lumber, firm, smooth and free from loose boards, large cracks or knot holes, and free from loose materials. If roof deck is inclined, it shall be properly graded to outlets. Where deck is of gypsum, all joints between slabs shall be properly grouted.
- FIRST.** Lay one (1) thickness of B.P. No. 2 Dry Sheathing, lapping the sheets not less than one (1) inch and nailing as often as required to hold in place. Where deck is of gypsum, dry sheathing may be omitted.
- SECOND.** Over the entire surface lay two (2) plies of B.P. 15# Special Tarred Felt, lapping each sheet nineteen (19) inches over preceding one, and nail every twenty-four (24) inches.
- THIRD.** Coat the entire surface uniformly with B.P. Coal Tar Pitch.
- FOURTH.** Over the entire surface, lay three (3) plies of B.P. 15# Special Tarred Felt, lapping each sheet twenty-four and two-thirds ($24\frac{2}{3}$) inches over preceding one, mopping with B.P. Coal Tar Pitch the full twenty-four and two-thirds ($24\frac{2}{3}$) inch lap on each sheet, so that in no place shall felt touch felt. These sheets shall be nailed not more than twenty-four (24) inches apart along upper edge of sheet so that all nails will be covered by not less than three (3) plies of felt.
- FIFTH.** Over the entire surface, pour from a dipper a uniform coating of B.P. Coal Tar Pitch into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ($\frac{1}{4}$) inch to five-eighth ($\frac{5}{8}$) inch in size, dry and free from dirt.
- GENERAL.** The felt shall be laid without wrinkles or buckles, the felt broomed into the pitch, while hot, with a stiff push broom. Not less than one hundred and fifty (150) pounds of pitch shall be used for constructing each one hundred (100) square feet of completed roof and the pitch shall not be heated above four hundred (400) degrees Fahrenheit.
- The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its twenty (20) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited Built-Up Tarred Felt and Pitch Roofing with Gravel Finish (for use over wood decks and precast gypsum slabs) laid in strict accordance with Building Products Limited Specification No. 3G, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond, for twenty (20) years, from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

1 layer B.P. No. 2 Dry Sheathing.....	4 lbs.
5 plies B.P. 15# Special Tarred Felt.....	80 "
150 lbs. B.P. Coal Tar Pitch.....	150 "
1 lb. Roofing Nails.....	1 "
400 lbs. Roofing Gravel.....	400 "
Total Weight of Finished Roof.....	635 lbs.

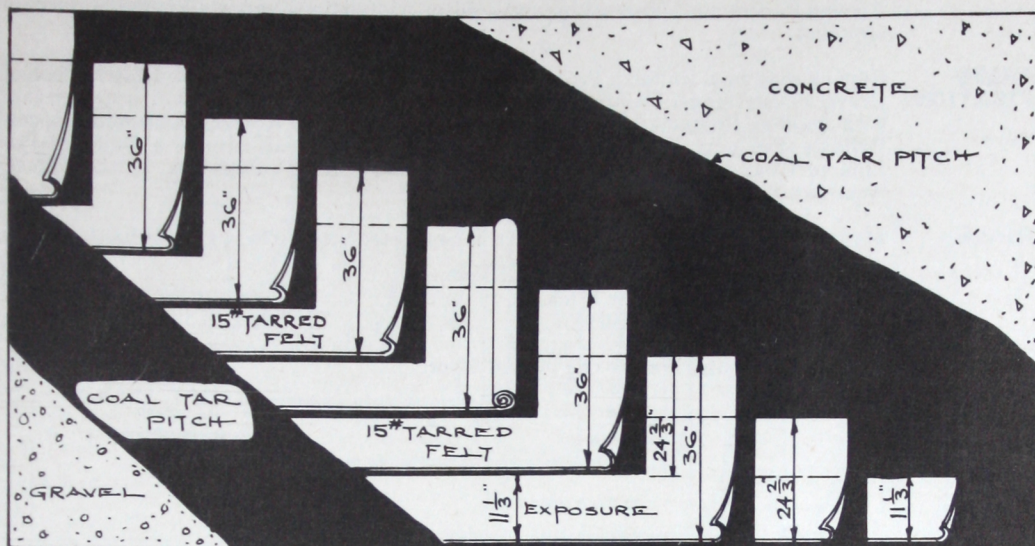


BUILDING PRODUCTS SPECIFICATION

Specification

COAL TAR PITCH AND TARRED FELT GRAVEL OR SLAG FINISH ROOF

No. 4G



**For Use Over Poured Concrete or Poured Gypsum Decks
For inclines not exceeding 1" in 1'**

BONDED FOR 10 YEARS

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials. If roof deck is inclined, it shall be properly graded to outlets. On inclines exceeding one (1) inch to the foot, roof deck shall permit nailing or creosoted wood nailing strips be provided.

FIRST.

Coat the roof deck uniformly with B.P. Coal Tar Pitch.

SECOND.

Over the entire surface lay three (3) plies of B.P. 15# Special Tarred Felt, lapping each sheet twenty-four and two-thirds ($24\frac{2}{3}$) inches over preceding one, mopping with B.P. Coal Tar Pitch the full twenty-four and two-thirds ($24\frac{2}{3}$) inch lap on each sheet, so that in no place shall felt touch felt. Such nailing as is necessary shall be done along upper edge of each sheet so that all nails shall be covered by not less than three (3) plies of felt.

Where gypsum decks are used, all felt shall be nailed not less than two (2) inches from upper edge of sheet, through flat tin discs not less than one (1) inch in diameter and spaced not more than six (6) inches apart.

THIRD.

Over the entire surface, pour from a dipper a uniform coating of B.P. Coal Tar Pitch into which, while hot, embed not less than four hundred (400) pounds of gravel or not less than three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ($\frac{1}{4}$) inch to five-eighth ($\frac{5}{8}$) inch in size, dry and free from dirt.

GENERAL.

The felt shall be laid without wrinkles or buckles, the felt broomed into the pitch, while hot, with a stiff push broom. Not less than one hundred and seventy-five (175) pounds of pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond, covering a period of ten (10) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its ten (10) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited Built-Up Tarred Felt and Pitch Roofing with Gravel Finish (for use over poured concrete or poured gypsum decks) laid in strict accordance with Building Products Limited Specification No. 4G, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for ten (10) years from date of completion, in accordance with Note No. 1 of said specification.

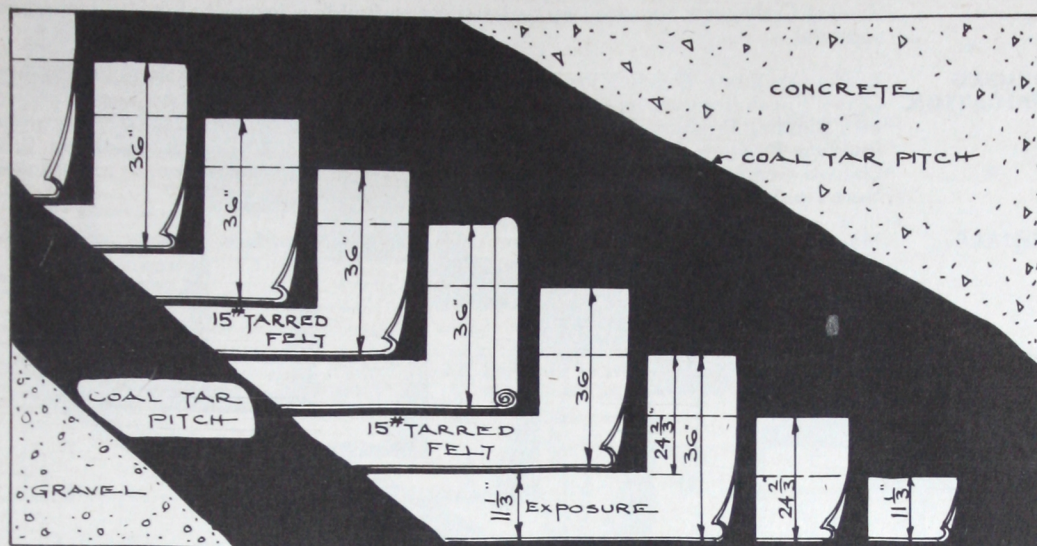
MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

3 plies B.P. 15# Special Tarred Felt.....	48 lbs.
175 lbs. B.P. Coal Tar Pitch.....	175 "
400 lbs. Roofing Gravel.....	400 "
Total Weight of Finished Roof.....	623 lbs.



COAL TAR PITCH AND TARRED FELT GRAVEL OR SLAG FINISH ROOF



**For Use Over Poured Concrete or Poured Gypsum Decks
For inclines not exceeding 1" in 1'**

BONDED FOR 15 YEARS

ROOF DECK. The roof deck shall be smooth, firm, dry and free from loose materials. If roof deck is inclined, it shall be properly graded to outlets. On inclines exceeding one (1) inch to the foot, roof deck shall permit nailing or creosoted wood nailing strips be provided.

FIRST. Coat the roof deck uniformly with B.P. Coal Tar Pitch.

SECOND. Over the entire surface lay three (3) plies of B.P. 15# Special Tarred Felt, lapping each sheet twenty-four and two-thirds ($24\frac{2}{3}$) inches over preceding one, mopping with B.P. Coal Tar Pitch the full twenty-four and two-thirds ($24\frac{2}{3}$) inch lap on each sheet, so that in no place shall felt touch felt. Such nailing as is necessary shall be done along upper edge of each sheet so that all nails shall be covered by not less than three (3) plies of felt.

Where gypsum decks are used, all felt shall be nailed not less than two (2) inches from upper edge of sheet, through flat tin discs not less than one (1) inch in diameter and spaced not more than six (6) inches apart.

THIRD. Over the entire surface, pour from a dipper a uniform coating of B.P. Coal Tar Pitch into which, while hot, embed not less than four hundred (400) pounds of gravel or not less than three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ($\frac{1}{4}$) inch to five-eighths ($\frac{5}{8}$) inch in size, dry and free from dirt.

GENERAL. The felt shall be laid without wrinkles or buckles, the felt broomed into the pitch, while hot, with a stiff push broom. Not less than one hundred and seventy-five (175) pounds of pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond, covering a period of fifteen (15) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its fifteen (15) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited Built-Up Tarred Felt and Pitch Roofing with Gravel Finish (for use over poured concrete or poured gypsum decks) laid in strict accordance with Building Products Limited Specification No. 5G, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for fifteen (15) years from date of completion, in accordance with Note No. 1 of said specification.

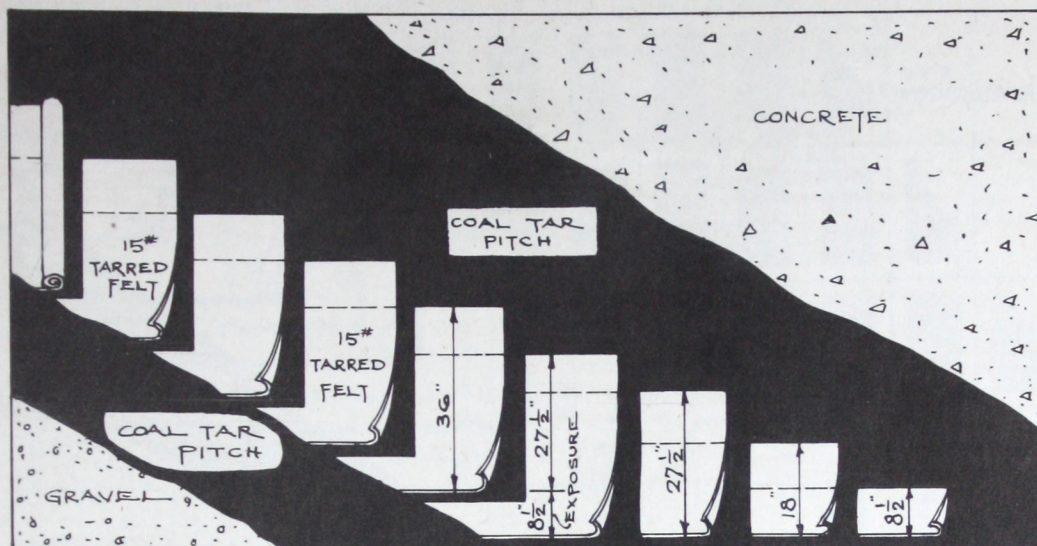
MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

3 plies B.P. 15# Special Tarred Felt.....	48 lbs.
175 lbs. B.P. Coal Tar Pitch.....	175 "
400 lbs. Roofing Gravel.....	400 "
Total Weight of Finished Roof.....	623 lbs.



COAL TAR PITCH AND TARRED FELT GRAVEL OR SLAG FINISH



**For Use Over Poured Concrete or Poured Gypsum Decks
For inclines not exceeding 1" in 1'**

BONDED FOR 20 YEARS

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials. If roof is inclined, it shall be properly graded to outlets. On inclines exceeding one (1) inch to the foot, the roof deck shall permit nailing or creosoted wood nailing strips be provided.

FIRST.

Coat the roof deck uniformly with B.P. Coal Tar Pitch.

SECOND.

Over the entire surface lay four (4) plies of B.P. 15# Special Tarred Felt, lapping each sheet twenty-seven and one-half ($27\frac{1}{2}$) inches over preceding one, mopping with B.P. Coal Tar Pitch, the full twenty-seven and one-half ($27\frac{1}{2}$) inch lap on each sheet so that in no place shall felt touch felt.

Where gypsum decks are used, all felt shall be nailed on upper edge of sheet through flat tin discs not less than one (1) inch in diameter and spaced not more than six (6) inches apart.

THIRD.

Over the entire surface, pour from a dipper a uniform coating of B.P. Coal Tar Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or not less than three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ($\frac{1}{4}$) inch to five-eighth ($\frac{5}{8}$) inch in size, dry and free from dirt.

GENERAL.

The felt shall be laid without wrinkles or buckles, the felt broomed into the pitch, while hot, with a stiff push broom. Not less than two hundred (200) pounds of pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its twenty (20) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

**CONDENSED
SPECIFICATION.**

Roofing shall be a Building Products Limited Built-Up Tarred Felt and Pitch Roofing with Gravel Finish (for use over poured concrete or poured gypsum decks) laid in strict accordance with Building Products Limited Specification No. 6G, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for twenty (20) years from date of completion in accordance with Note No. 1 of said specification.

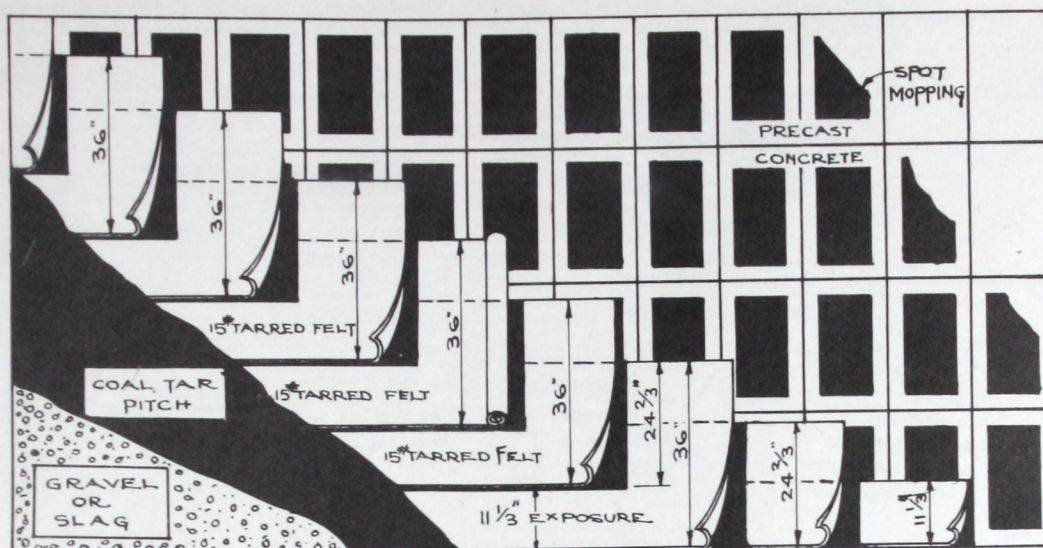
MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

4 plies B.P. 15# Special Tarred Felt.....	65 lbs.
200 lbs. B.P. Coal Tar Pitch.....	200 "
400 lbs. Roofing Gravel.....	400 "
Total Weight of Finished Roof.....	665 lbs.



COAL TAR PITCH AND TARRED FELT GRAVEL OR SLAG FINISH



For Use Over Precast Concrete, Haydite or Gypsum Slabs
For inclines not exceeding 2" in 1'

BONDED FOR 10 YEARS

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials. If the roof deck is inclined, it shall be properly graded to outlets. All joints between precast slabs shall be properly grouted. On inclines exceeding one (1) inch to the foot, the roof deck shall permit nailing or creosoted wood nailing strips be provided.

FIRST.

Spot or strip mop each slab with B.P. Coal Tar Pitch, care being taken that pitch moppings are held back not less than four (4) inches from edge of each joint.

SECOND.

Over the entire surface, lay three (3) plies of B.P. 15# Special Tarred Felt, lapping each sheet twenty-four and two-thirds ($24\frac{2}{3}$) inches over preceding one, mopping with B.P. Coal Tar Pitch the full twenty-four and two-thirds ($24\frac{2}{3}$) inch lap on each sheet, so that in no place shall felt touch felt.

THIRD.

Over the entire surface, pour from a dipper a uniform coating of B.P. Coal Tar Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or not less than three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ($\frac{1}{4}$) inch to five-eighth ($\frac{5}{8}$) inch in size, dry and free from dirt.

GENERAL.

The felt shall be laid without wrinkles or buckles, the felt broomed into the pitch, while hot, with a stiff push broom. Not less than one hundred and seventy-five (175) pounds of pitch shall be used for constructing each one hundred (100) square feet of completed roof, and pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond, covering a period of ten (10) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its ten (10) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

**CONDENSED
SPECIFICATION.**

Roofing shall be a Building Products Limited Built-Up Tarred Felt and Pitch Roofing with Gravel Finish (for use over precast concrete, haydite or gypsum slabs) laid in strict accordance with Building Products Limited Specification No. 7G, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for ten (10) years from date of completion in accordance with Note No. 1 of said specification.

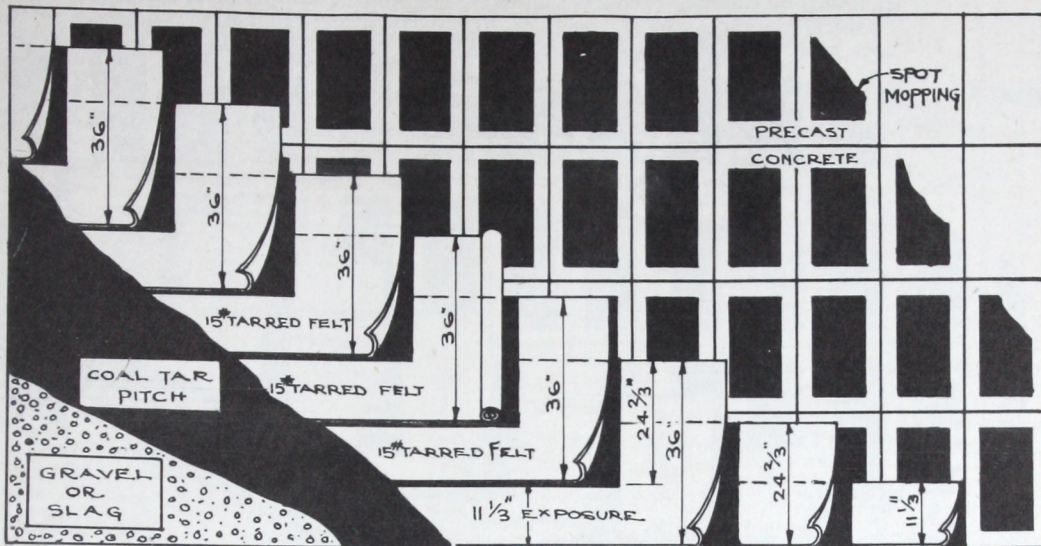
MATERIALS.

Materials required per 100 square feet of roof surface, gross weight:

3 plies B.P. 15# Special Tarred Felt.....	48 lbs.
175 lbs. B.P. Coal Tar Pitch.....	175 "
400 lbs. Roofing Gravel.....	400 "
Total Weight of Finished Roof.....	623 lbs.



COAL TAR PITCH AND TARRED FELT GRAVEL OR SLAG FINISH



For Use Over Precast Concrete, Haydite or Gypsum Slabs
For inclines not exceeding 2" in 1'

BONDED FOR 15 YEARS

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials. If the roof deck is inclined, it shall be properly graded to outlets. All joints between precast slabs shall be properly grouted. On inclines exceeding one (1) inch to the foot, the roof deck shall permit nailing or creosoted wood nailing strips be provided.

FIRST.

Spot or strip mop each slab with B.P. Coal Tar Pitch, care being taken that pitch moppings are held back not less than four (4) inches from edge of each joint.

SECOND.

Over the entire surface, lay three (3) plies of B.P. 15# Special Tarred Felt, lapping each sheet twenty-four and two-thirds ($24\frac{2}{3}$) inches over preceding one, mopping with B.P. Coal Tar Pitch the full twenty-four and two-thirds ($24\frac{2}{3}$) inch lap on each sheet, so that in no place shall felt touch felt.

THIRD.

Over the entire surface, pour from a dipper a uniform coating of B.P. Coal Tar Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or not less than three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ($\frac{1}{4}$) inch to five-eighths ($\frac{5}{8}$) in size, dry and free from dirt.

GENERAL.

The felt shall be laid without wrinkles or buckles, the felt broomed into the pitch, while hot, with a stiff push broom. Not less than one hundred and seventy-five (175) pounds of pitch shall be used for constructing each one hundred (100) square feet of completed roof, and pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond, covering a period of fifteen (15) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its fifteen (15) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

**CONDENSED
SPECIFICATION.**

Roofing shall be a Building Products Limited Built-Up Tarred Felt and Pitch Roofing with Gravel Finish (for use over precast concrete, haydite or gypsum slabs) laid in strict accordance with Building Products Limited Specification No. 8G, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for fifteen (15) years from date of completion in accordance with Note No. 1 of said specification.

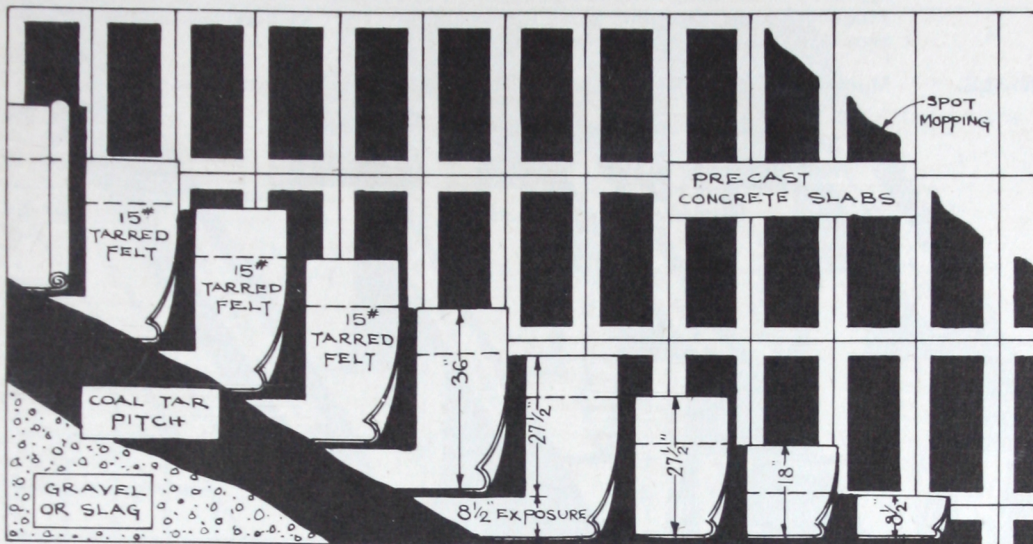
MATERIALS.

Materials required per 100 square feet of roof surface, gross weight:

3 plies B.P. 15# Special Tarred Felt.....	48 lbs.
175 lbs. B.P. Coal Tar Pitch.....	175 "
400 lbs. Roofing Gravel.....	400 "
Total Weight of Finished Roof.....	623 lbs.



COAL TAR PITCH AND TARRED FELT GRAVEL OR SLAG FINISH



For Use Over Precast Concrete, Haydite or Gypsum Slabs
For inclines not exceeding 2" in 1'

BONDED FOR 20 YEARS

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials. If the roof deck is inclined, it shall be properly graded to outlets. All joints between precast slabs shall be properly grouted. On inclines exceeding one (1) inch to the foot, the roof deck shall permit nailing or creosoted wood nailing strips be provided.

FIRST.

Spot or strip mop each slab with B.P. Coal Tar Pitch. Care shall be taken that pitch moppings are held back not less than four (4) inches from the edge of each joint.

SECOND.

Over the entire surface, lay four (4) plies of B.P. 15# Special Tarred Felt, lapping each sheet twenty-seven and one-half (27 1/2) inches over preceding one, mopping with B.P. Coal Tar Pitch the full width of each twenty-seven and one-half (27 1/2) inch lap on each sheet, so that in no place shall felt touch felt.

THIRD.

Over the entire surface, pour from a dipper a uniform coating of B.P. Coal Tar Pitch into which, while hot, embed not less than four hundred (400) pounds of gravel or not less than three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter (1/4) inch to five-eighths (5/8) inch in size, dry and free from dirt.

GENERAL.

The felt shall be laid without wrinkles or buckles, the felt broomed into the pitch, while hot, with a stiff push broom. Not less than two hundred (200) pounds of pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its twenty (20) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

**CONDENSED
SPECIFICATION.**

Roofing shall be a Building Products Limited Built-Up Tarred Felt and Pitch Roofing with Gravel Finish (for use over precast concrete, haydite or gypsum slabs) laid in strict accordance with Building Products Limited Specification No. 9G, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for twenty (20) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

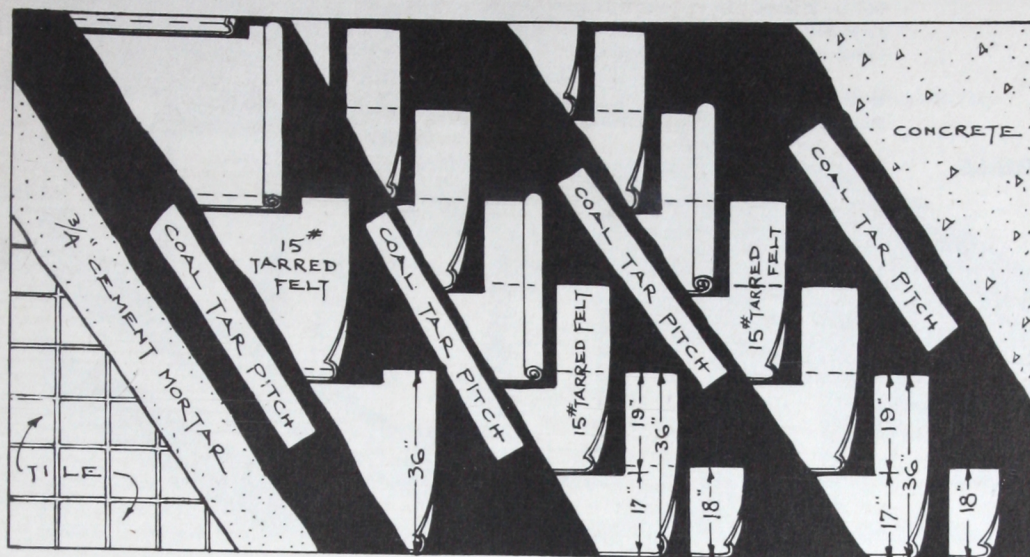
4 plies B.P. 15# Special Tarred Felt.....	65 lbs.
200 lbs. B.P. Coal Tar Pitch.....	200 "
400 lbs. Roofing Gravel.....	400 "
Total Weight of Finished Roof.....	665 lbs.



TARRED FELT AND COAL TAR PITCH ROOFING

No. 10G

OVER CONCRETE



**For Use Under Promenade Tile
For inclines not exceeding 1" in 1'**

NOT BONDED

- ROOF DECK.** The roof deck shall be smooth, firm, dry and free from loose materials, properly graded to outlets.
- FIRST.** Coat the concrete uniformly with B.P. Coal Tar Pitch.
- SECOND.** Over the entire surface, lay two (2) plies of B.P. 15# Special Tarred Felt, lapping each sheet nineteen (19) inches over preceding one, mopping with B.P. Coal Tar Pitch the full nineteen (19) inch lap on each sheet, so that in no place shall felt touch felt.
- THIRD.** Coat the entire surface with B.P. Coal Tar Pitch.
- FOURTH.** Over the entire surface, lay (2) plies of B.P. 15# Special Tarred Felt, lapping each sheet nineteen (19) inches over preceding one, mopping with B.P. Coal Tar Pitch the full nineteen (19) inch lap on each sheet, so that in no place shall felt touch felt.
- FIFTH.** Immediately preceding the laying of the tile, thoroughly clean the surface of the roof and mop same with B.P. Coal Tar Pitch, into which, while hot, embed one (1) ply of B.P. 15# Special Tarred Felt, lapping each sheet two (2) inches over preceding one. Over this surface and immediately preceding the laying of the tile, spread a heavy uniform coating of B.P. Coal Tar Pitch. No more of the roof surface shall be covered with the final or last ply of felt and mopping of pitch than is covered at the same time with tile.
- Over the felt and pitch thus laid, vitrified clay tile (as may be approved by the Architect), shall be set in not less than three-quarters ($\frac{3}{4}$) inch of Portland Cement Mortar (1 to 3 mix). The tile joints shall be three-sixteenths ($\frac{3}{16}$) inch to one-quarter ($\frac{1}{4}$) inch wide. Expansion joints three-quarters ($\frac{3}{4}$) inch wide shall be filled with B.P. Plastic Cement mixed with fine sand (1 to 2 mix). Mastic expansion joints shall be provided throughout the roof surface as may be necessary to take care of expansion. All expansion joints shall extend from the top of the tile through the cement mortar to the felt and pitch waterproofing, and in no case shall expansion joints be spaced more than twenty (20) feet apart in both directions.

GENERAL.

The felt shall be laid without wrinkles or buckles, the felt broomed into the pitch, while hot, with a stiff push broom. Not less than two hundred (200) pounds of pitch shall be used for constructing each one hundred (100) square feet of completed roof and the pitch shall not be heated above four hundred (400) degrees Fahrenheit. The Roofing Contract shall be awarded to a Roofing Contractor approved by Building Products Limited, who has had previous experience in laying this type of work and whose work has proved satisfactory.

NOTE.

Building Products Limited recommend this type of roof under Promenade Tile, but do not issue a Guaranty Bond on this type of construction.

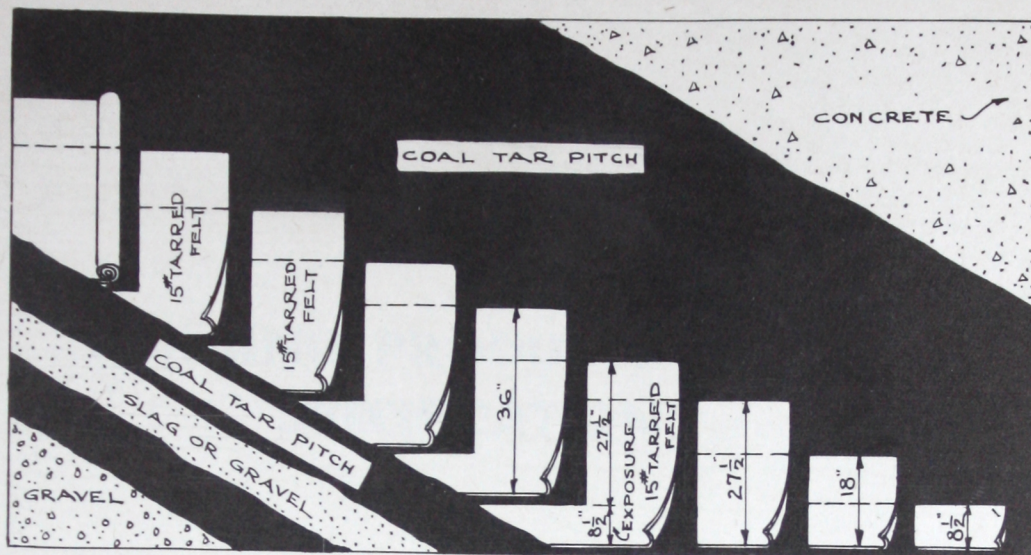
MATERIALS.

Materials required per 100 square feet of roofing membrane only:

1 1/4 rolls B.P. 15# Special Tarred Felt.....	81 lbs.
200 lbs. B.P. Coal Tar Pitch.....	200 "
Total Weight, Roof Membrane only.....	281 lbs.



TARRED FELT AND COAL TAR PITCH AND GRAVEL ROOFING ON CONCRETE



**For Use As Spray Pond Roofs
For inclines not exceeding 1/2" in 1'**

NOT BONDED

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials, properly graded to outlets.

FIRST.

Cover the concrete uniformly with B.P. Coal Tar Pitch.

SECOND.

Over the entire surface lay four (4) plies of B.P. 15# Special Tarred Felt, lapping each sheet twenty-seven and one-half (27 1/2) inches over preceding one, mopping with B.P. Coal Tar Pitch the full twenty-seven and one-half (27 1/2) inch lap on each sheet, so that in no place shall felt touch felt.

THIRD.

Immediately before the application of surfacing material, thoroughly clean the surface of the roof, after which over the entire surface, pour from a dipper a uniform coating of B.P. Coal Tar Pitch into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag, for each one hundred (100) square feet.

FOURTH.

All loose or excess gravel or slag shall be removed by brooming lightly all surfaces. Follow immediately with the pouring of hot B.P. Coal Tar Pitch over entire area, into which shall be embedded not less than three hundred (300) pounds of gravel or not less than two hundred (200) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter (1/4) inch to five-eighth (5/8) inch in size, dry and free from dirt. All gravel or slag shall be firmly embedded in pitch, so that no loose particles appear in finished job.

GENERAL.

The felt shall be laid without wrinkles or buckles, the felt broomed into the pitch, while hot, with a stiff push broom. Not less than three hundred (300) pounds of pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The Roofing Contract shall be awarded to a Roofing Contractor approved by Building Products Limited.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

4 plies of B.P. 15# Special Tarred Felt.....	65 lbs.
300 lbs. B.P. Coal Tar Pitch.....	300 "
700 lbs. Roofing Gravel.....	700 "

Total Weight of Finished Roof.....1,065 lbs.



BUILDING PRODUCTS LIMITED SPECIFICATIONS

SECTION 2

ASPHALT FELT AND ASPHALT COMPOUND ROOFS

ASPHALT
ROOFS

ROOFS

BUILT-UP ROOFS

BUILT-UP ROOFS

SPECIFICATIONS

BUILT-UP ROOFS

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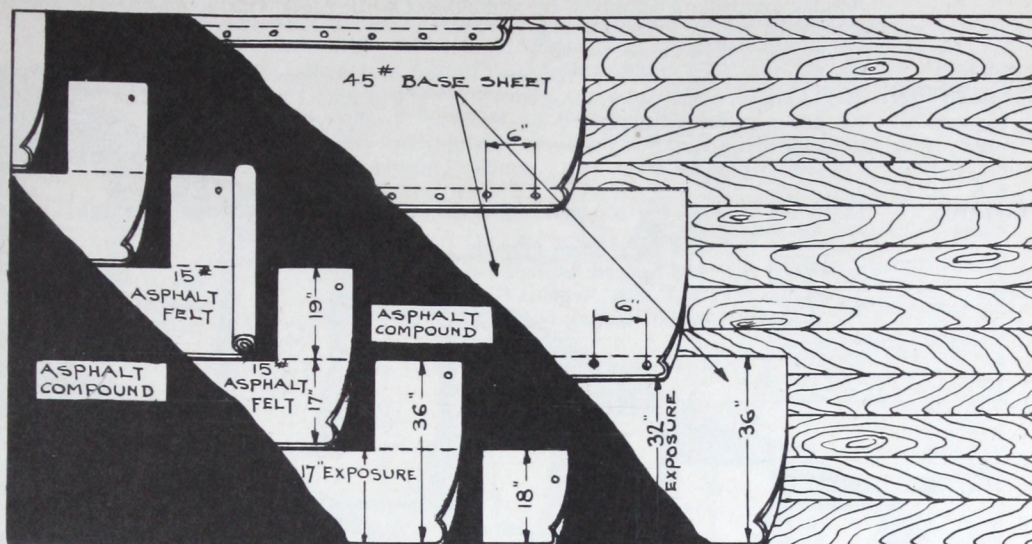
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ASPHALT BASE SHEET ASPHALT FELT SMOOTH SURFACE ROOF



For Use Over Wood Decks
For inclines exceeding 2" in 1' up to 6" in 1'

BONDED FOR 10 YEARS

- ROOF DECK.** The roof deck shall be of seasoned lumber, firm, smooth and free from loose boards, large cracks and knot holes and free from loose materials.
- FIRST.** Over the entire surface, lay a sheet of B.P. 45# Base Sheet, lapping each sheet not less than two (2) inches over preceding one, nailing along the laps with large head galvanized roofing nails, spaced not more than six (6) inches apart.
- SECOND.** Over the entire surface of Base Sheet thus laid, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound, into which, while hot, lay two (2) plies of B.P. 15# Special Asphalt Felt, lapping each sheet nineteen (19) inches over preceding one, mopping back the full width of each nineteen (19) inch lap so that in no place shall felt touch felt. Nail along upper edge of sheet with nails driven through flat tin discs of not less than one (1) inch in diameter, and spaced every twelve (12) inches.
- THIRD.** Over the entire surface thus laid, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound leaving no exposed felt.
- GENERAL.**
- (a) The 45# Base Sheet shall be cut in lengths of not more than eighteen (18) feet and stacked twenty-four (24) hours before application.
 - (b) The felt and base sheet shall be laid without wrinkles or buckles, the felt broomed into the asphalt, while hot, with a stiff push broom. Not less than ninety (90) pounds of B.P. 210° m.p. Asphalt Compound shall be used for each one hundred (100) square feet of completed roof. The hot moppings of Asphalt Compound shall not precede the felt rolls for a distance greater than four (4) feet.
 - (c) The Asphalt Compound shall be heated to not less than four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond covering a period of ten (10) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its ten (10) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited Asphalt Base Sheet Roofing (for use over wood decks) laid in strict accordance with Building Products Limited Specification No. 1S, by a Roofing Contractor approved by Building Products Limited. This Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for ten (10) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

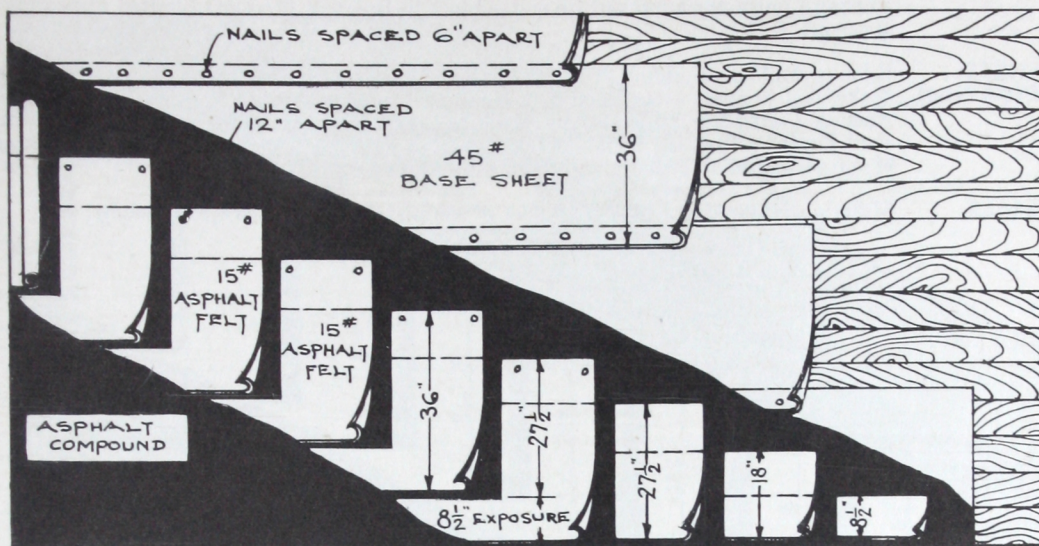
1 roll B.P. 45# Base Sheet (108 sq. feet).....	45 lbs.
1/2 roll B.P. 15# Special Asphalt Felt.....	32 "
90 lbs. B.P. 210° m.p. Asphalt Compound.....	90 "
1 lb. Galvanized Roofing Nails.....	1 "

Total Weight of Finished Roof..... 168 lbs.



ASPHALT BASE SHEET

ASPHALT FELT SMOOTH SURFACE ROOF



For Use Over Wood Decks
For inclines exceeding 2" in 1' up to 6" in 1'

BONDED FOR 20 YEARS

ROOF DECK.

The roof deck shall be of seasoned lumber, firm, smooth and free from loose boards, large cracks and knot holes and free from loose materials.

FIRST.

Over the entire surface, lay a sheet of B.P. 45# Base Sheet, lapping each sheet not less than two (2) inches over preceding one, nailing along the laps with large head galvanized roofing nails, spaced not more than six (6) inches apart.

SECOND.

Over the entire surface of Base Sheet thus laid, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound, into which, while hot, lay four (4) plies of B.P. 15# Special Asphalt Felt, lapping each sheet twenty-seven and one-half (27½) inches over preceding one, mopping back the full width of each twenty-seven and one-half (27½) inch lap, so that in no place shall felt touch felt. Nail along upper edge of sheet with nails driven through flat tin discs of not less than one (1) inch diameter and spaced every twelve (12) inches so that all nails shall be covered by four (4) plies of felt.

THIRD.

Over the entire surface thus laid, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound, leaving no exposed felt.

GENERAL.

- (a) The 45# Base Sheet shall be cut in lengths of not more than eighteen (18) feet and stacked twenty-four (24) hours before application.
- (b) The felt and base sheet shall be laid without wrinkles or buckles, the felt broomed into the asphalt, while hot, with a stiff push broom. Not less than one hundred and fifty (150) pounds of B.P. 210° m.p. Asphalt Compound shall be used for each one hundred (100) square feet of completed roof. The hot moppings of Asphalt Compound shall not precede the felt rolls for a distance greater than four (4) feet.
- (c) Asphalt Compound shall be heated to not less than four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond, covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its twenty (20) Year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited Asphalt Base Sheet Roofing (for use over wood decks) laid in strict accordance with Building Products Limited Specification No. 3S by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for twenty (20) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

1 roll (108 sq. ft.) B.P. 45# Base Sheet.....	45 lbs.
4 plies B.P. 15# Special Asphalt Felt.....	65 "
150 lbs. B.P. 210° m.p. Asphalt Compound.....	150 "
1 lb. Roofing Nails.....	1 "
Total Weight of Finished Roof.....	261 lbs.



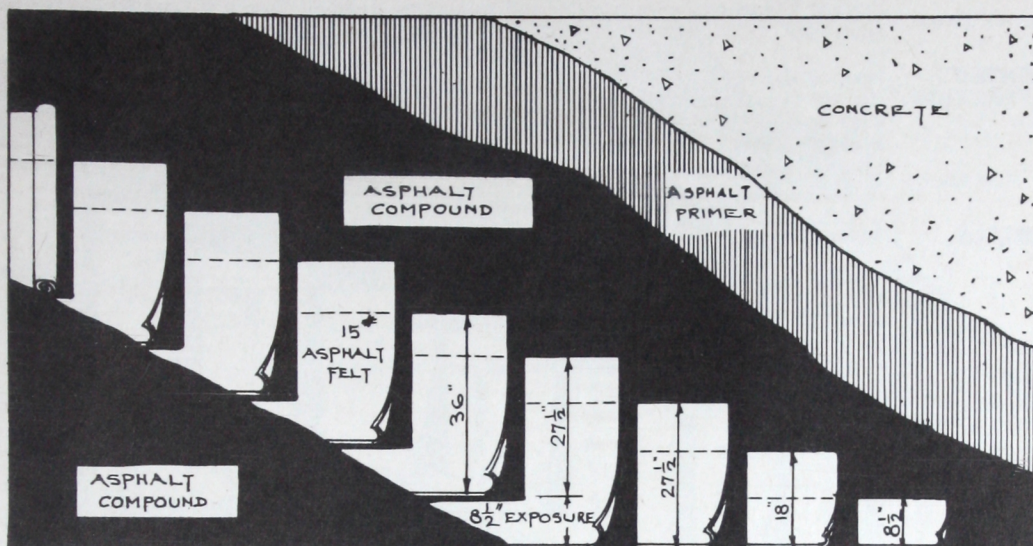
BUILDING PRODUCTS SPECIFICATION

FOUR PLY ASPHALT FELT AND ASPHALT COMPOUND

SMOOTH SURFACE ROOF

Specification

No. 45



For Use Over Poured or Precast Concrete, Haydite or Gypsum Decks
For inclines exceeding 2" in 1' up to 6" in 1'

BONDED FOR 10 YEARS

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials.

FIRST.

Over the entire surface of the roof deck, spread with a mop a uniform coating of B.P. Asphalt Primer. Sufficient time shall be allowed for priming coat to thoroughly dry before proceeding with application of membrane proper.

SECOND.

Over the entire surface of the roof deck thus primed, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound, into which, while hot, lay four (4) plies of B.P. 15# Special Asphalt Felt, lapping each sheet twenty-seven and one-half (27½) inches over preceding one, and mopping with B.P. 210° m.p. Asphalt Compound the full twenty-seven and one-half (27½) inch lap so that in no place shall felt touch felt.

Where gypsum decks are used, all felt shall be nailed not less than two (2) inches from upper edge of sheet through flat tin discs not less than one (1) inch in diameter and spaced not more than six (6) inches apart.

THIRD.

Over the entire surface of felt membrane thus laid, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound.

GENERAL.

- (a) The felt shall be laid without wrinkles or buckles, the felt broomed into the asphalt, while hot, with a stiff push broom. Not less than one (1) gallon of B.P. Asphalt Primer and not less than one hundred and fifty (150) pounds of B.P. 210° m.p. Asphalt Compound shall be used for each one hundred (100) square feet of completed roof. The hot moppings of Asphalt Compound shall not precede the felt rolls for a distance greater than four (4) feet.
- (b) Asphalt Compound shall be heated to not less than four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond covering a period of ten (10) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its ten (10) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited four (4) ply 15# Special Asphalt Felt Roofing (for use over poured or precast concrete, haydite or gypsum decks) laid in strict accordance with Building Products Limited Specification No. 4S, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for ten (10) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

1 coating B.P. Asphalt Primer (1 gal.).....	10 lbs.
4 plies B.P. 15# Special Asphalt Felt.....	65 "
150 lbs. B.P. 210° m.p. Asphalt Compound.....	150 "
Total Weight of Finished Roof.....	225 lbs.



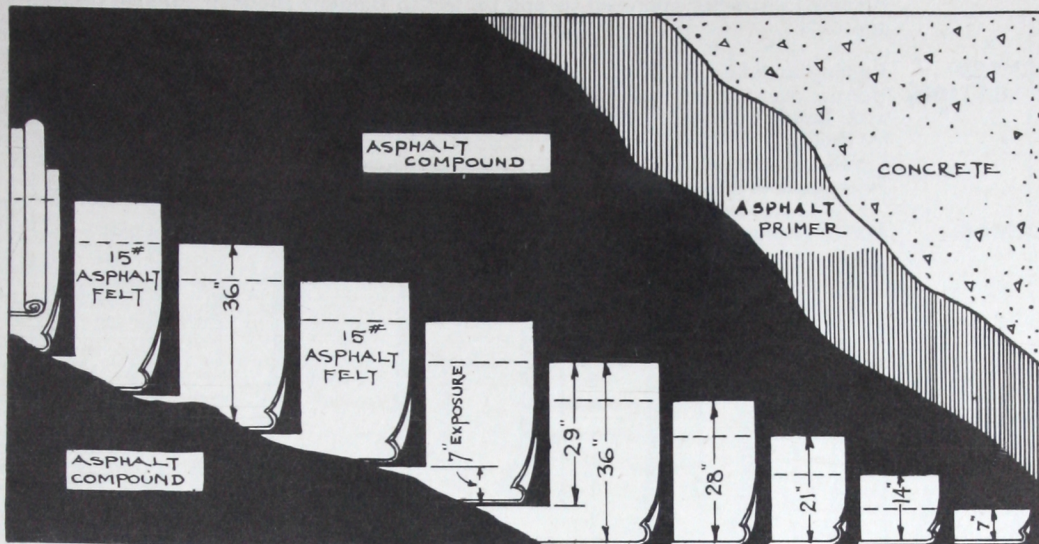
BUILDING PRODUCTS SPECIFICATION

FIVE PLY ASPHALT FELT AND ASPHALT COMPOUND

SMOOTH SURFACE ROOF

Specification

No. 55



For Use Over Poured or Precast Concrete, Haydite or Gypsum Decks
For inclines exceeding 2" in 1' up to 6" in 1'

BONDED FOR 15 YEARS

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials.

FIRST.

Over the entire surface of the roof deck, spread with a mop a uniform coating of B.P. Asphalt Primer. Sufficient time shall be allowed for priming coat to thoroughly dry before proceeding with application of membrane proper.

SECOND.

Over the entire surface of the roof deck thus primed, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, lay five (5) plies of B.P. 15# Special Asphalt Felt, lapping each sheet twenty-nine (29) inches over preceding one, and mopping with B.P. 210° m.p. Asphalt Compound the full twenty-nine (29) inch lap so that in no place shall felt touch felt.

Where gypsum decks are used, all felt shall be nailed not less than two (2) inches from upper edge of sheet, through flat tin discs not less than one (1) inch in diameter and spaced not more than six (6) inches apart.

THIRD.

Over the entire surface of felt membrane thus laid, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound.

GENERAL.

- (a) The felt shall be laid without wrinkles or buckles, the felt broomed into the asphalt, while hot, with a stiff push broom. Not less than one (1) gallon of B.P. Asphalt Primer and not less than one hundred and eighty (180) pounds of B.P. 210° m.p. Asphalt Compound shall be used for each one hundred (100) square feet of completed roof. The hot moppings of Asphalt Compound shall not precede the felt rolls for a distance greater than four (4) feet.
- (b) Asphalt Compound shall be heated to not less than four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond covering a period of fifteen (15) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its fifteen (15) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited five (5) ply 15# Special Asphalt Felt Roofing (for use over poured or precast concrete, haydite or gypsum decks) laid in strict accordance with Building Products Limited Specification No. 5S, by a Roofing Contractor, approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for fifteen (15) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

1 coating B.P. Asphalt Primer (1 gal.).....	10 lbs.
5 plies B.P. 15# Special Asphalt Felt.....	80 "
180 lbs. B.P. 210° m.p. Asphalt Compound.....	180 "
<hr/>	
Total Weight of Finished Roof.....	270 lbs.



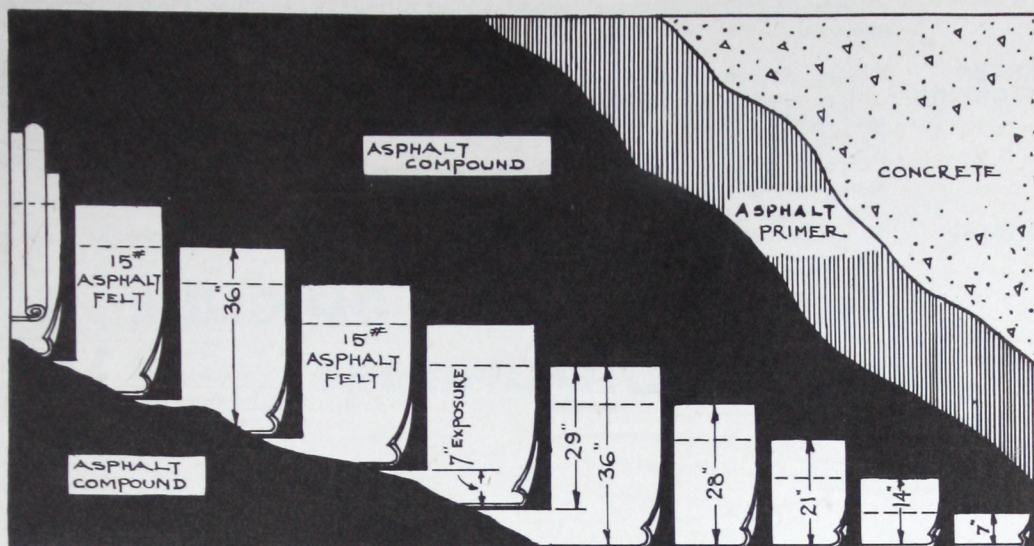
BUILDING PRODUCTS SPECIFICATION

FIVE PLY ASPHALT FELT AND ASPHALT COMPOUND

SMOOTH SURFACE ROOF

Specification

No. 65



For Use Over Poured or Precast Concrete, Haydite or Gypsum Decks
For inclines exceeding 2" in 1' up to 6" in 1'

BONDED FOR 20 YEARS

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials.

FIRST.

Over the entire surface of the roof deck, spread with a mop a uniform coating of B.P. Asphalt Primer. Sufficient time shall be allowed for priming coat to thoroughly dry before proceeding with application of membrane proper.

SECOND.

Over the entire surface of the roof deck thus primed, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, lay five (5) plies of B.P. 15# Special Asphalt Felt, lapping each sheet twenty-nine (29) inches over preceding one, and mopping with B.P. 210° m.p. Asphalt Compound the full twenty-nine (29) inch lap so that in no place shall felt touch felt.

Where gypsum decks are used, all felt shall be nailed not less than two (2) inches from upper edge of sheet, through flat tin discs not less than one (1) inch in diameter and spaced not more than six (6) inches apart.

THIRD.

Over the entire surface of felt membrane thus laid, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound.

GENERAL.

- (a) The felt shall be laid without wrinkles or buckles, the felt broomed into the asphalt, while hot, with a stiff push broom. Not less than one (1) gallon of B.P. Asphalt Primer and not less than one hundred and eighty (180) pounds of B.P. 210° m.p. Asphalt Compound shall be used for each one hundred (100) square feet of completed roof. The hot mopings of Asphalt Compound shall not precede the felt rolls for a distance greater than four (4) feet.
- (b) Asphalt Compound shall be heated to not less than four hundred (400) degrees Fahrenheit.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its twenty (20) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited five (5) ply 15# Special Asphalt Felt Roofing (for use over poured or precast concrete, haydite or gypsum decks) laid in strict accordance with Building Products Limited Specification No. 6S, by a Roofing Contractor, approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for twenty (20) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

1 coating B.P. Asphalt Primer (1 gal.).....	10 lbs.
5 plies B.P. 15# Special Asphalt Felt.....	80 "
180 lbs. B.P. 210° m.p. Asphalt Compound.....	180 "
Total Weight of Finished Roof.....	270 lbs.



BUILDING PRODUCTS LIMITED SPECIFICATIONS

SECTION 3

N.I.S. ROOFING (19" SELVAGE EDGE) ROOFS

ROOFS

BUILT-UP ROOFS

BUILT-UP ROOFS

SPECIFICATIONS

BUILT-UP ROOFS

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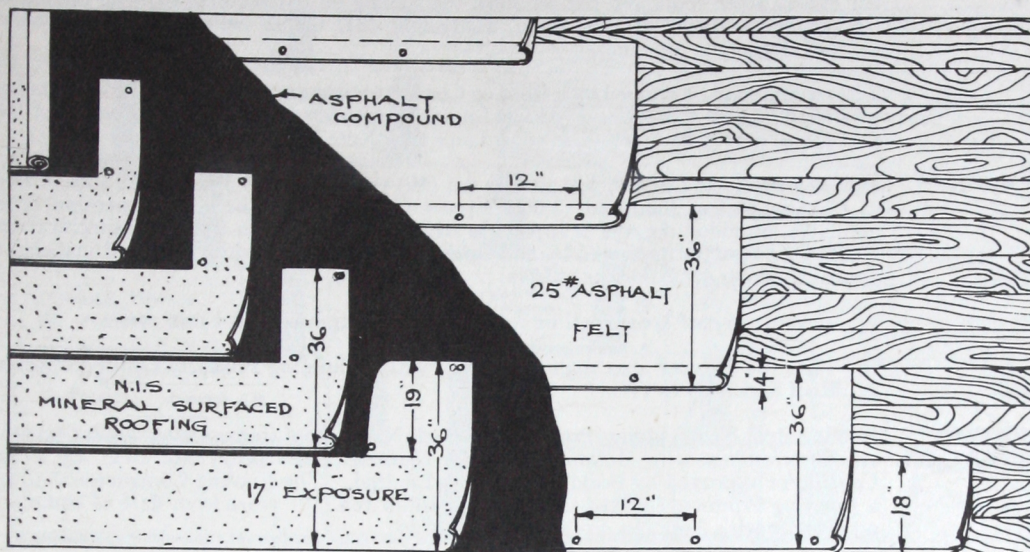
BUILDING PRODUCTS SPECIFICATION

Specification

N.I.S. ROOFING (19" SELVAGE EDGE)

No. 1MS

ROOF



For Use Over Wood Decks

For inclines exceeding 3" in 1' up to 6" in 1'

BONDED FOR 10 YEARS

- ROOF DECK.** The roof deck shall be of seasoned lumber, firm, smooth and free from loose boards, large cracks, knot holes or loose materials.
- FIRST.** Over the entire surface lay one (1) ply of B.P. 25# Asphalt Felt, lapping each sheet four (4) inches over preceding one, and nailing along lapped edge with barbed roofing nails through flat tin discs, spacing nails not more than twelve (12) inches apart.
- SECOND.** Over the entire surface spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound, into which, while hot, shall be immediately rolled B.P. N.I.S. Roofing laid at right angles to incline of roof, lapping each sheet the full width of the nineteen (19) inch selvage. All sheets of N.I.S. Roofing shall be securely nailed in place with a double course of one (1) inch barbed roofing nails driven through flat tin discs placed along the selvage edge of sheet. Nailing courses shall be staggered, and nails spaced not more than twelve (12) inches apart. The lower nailing course shall be held back two (2) inches from mineral surfacing.
- THIRD.** Spread over the entire surface of the nineteen (19) inch selvage a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, shall immediately be rolled the following sheet of N.I.S. Roofing.
- FOURTH.** All end laps shall be overlapped at least six (6) inches. The underlying sheet of each end lap shall be nailed with six (6) nails through flat tin discs spaced five (5) inches apart, starting one (1) inch from lower edge of sheet. The six (6) inch lap shall be coated with B.P. 210° m.p. Asphalt Compound, and the overlapping sheet thoroughly pressed down.
- FIFTH.** The N.I.S. Roofing shall be cut in lengths not exceeding twenty (20) feet, and stacked flat in piles not less than twenty-four (24) hours before using.
- GENERAL.** (a) The asphalt felt and N.I.S. roofing shall be laid without wrinkles or buckles. Not less than sixty (60) pounds of 210° m.p. asphalt compound shall be used for each one hundred (100) square feet of completed roof.

- (b) Asphalt compound shall be heated to not less than four hundred (400) degrees Fahrenheit.
- (c) Where steep roofs join flat sections, the roofing on flat sections shall be carried up the inclined surfaces not less than twenty-four (24) inches before the application of the N.I.S. roofing.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond covering a period of ten (10) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its ten (10) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval, under conditions as follows:

- (a) That steep roof areas shall be roofed in conjunction with flat roof area.
- (b) That the flat roof area shall be covered with a Building Products Limited Specification Roof Series 1G to 11G.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited, N.I.S. Roof (for use over wood decks) laid in strict accordance with Building Products Limited Specification No. 1MS, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for ten (10) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

1 ply B.P. 25# Asphalt Felt.....	27 lbs.
1 square (2 rolls) B.P. N.I.S. Roofing.....	110 "
60 lbs. B.P. 210° m.p. Asphalt Compound.....	60 "
2 lbs. Roofing Nails and Discs.....	2 "
Total Weight of Finished Roof.....	199 lbs.



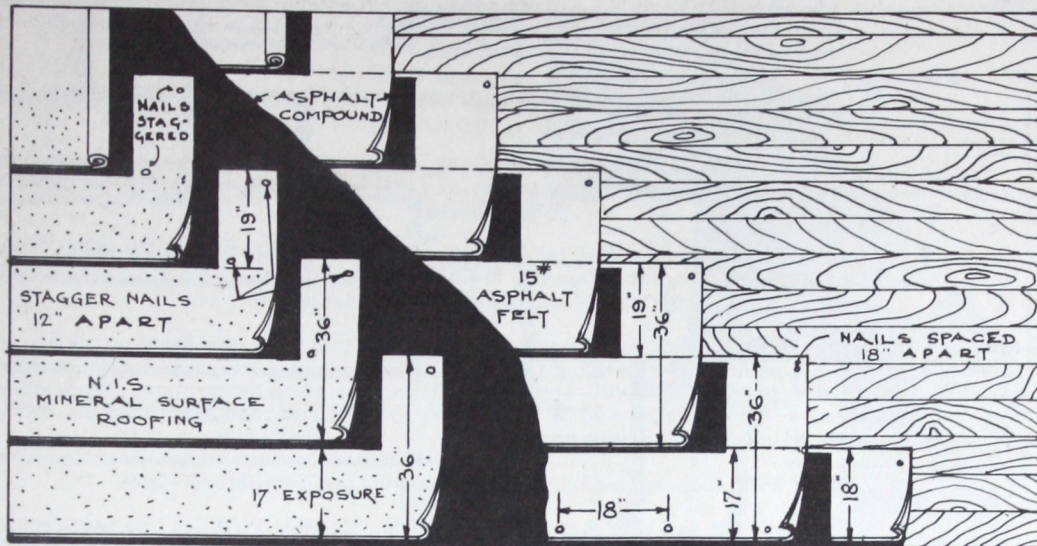
BUILDING PRODUCTS SPECIFICATION

Specification

N.I.S. ROOFING (19" SELVAGE EDGE)

No. 2MS

ROOF



For Use Over Wood Decks

For inclines exceeding 3" in 1' up to 6" in 1'

BONDED FOR 15 YEARS

- ROOF DECK.** The roof deck shall be of seasoned lumber, firm, smooth and free from loose boards, large cracks, knot holes or loose materials.
- FIRST.** Over the entire surface of the roof deck lay two (2) plies of B.P. 15# Special Asphalt Felt, lapping each sheet nineteen (19) inches over preceding one. Each sheet shall be nailed two (2) inches from upper edge of sheet with barbed roofing nails through flat tin discs. Nails shall be spaced not more than twelve (12) inches apart.
- SECOND.** After the felt is thus laid, each sheet shall be mopped back from lower edge for a distance of seventeen (17) inches with B.P. 210° m.p. Asphalt Compound. Care shall be taken to see that all felt is thoroughly embedded in hot moppings and be free from all wrinkles and buckles.
- THIRD.** Over the entire surface spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, shall be immediately rolled B.P. N.I.S. Roofing, laid at right angles to incline of roof, lapping each sheet the full width of the nineteen (19) inch selvage. All sheets of N.I.S. Roofing shall be securely nailed in place with a double course of one (1) inch barbed roofing nails, driven through flat tin discs placed along the selvage edge of sheet. Nailing courses shall be staggered and nails spaced not more than twelve (12) inches apart. The lower nailing course shall be held back two (2) inches from mineral surfacing.
- FOURTH.** Spread over the entire surface of the nineteen (19) inch selvage a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, shall immediately be rolled the following sheet of N.I.S. Roofing.
- FIFTH.** All end laps shall be overlapped at least six (6) inches. The underlying sheet of each end lap shall be nailed with six (6) nails through flat tin discs, spaced five (5) inches apart, starting one (1) inch from lower edge of sheet. The six (6) inch lap shall be coated with 210° m.p. Asphalt Compound and the overlapping sheet thoroughly pressed down.

SIXTH.

The N.I.S. Roofing shall be cut in lengths not exceeding twenty (20) feet, and stacked flat in piles not less than twenty-four (24) hours before using.

GENERAL.

- (a) The asphalt felt and N.I.S. roofing shall be laid without wrinkles or buckles. Not less than ninety (90) pounds of 210° m.p. asphalt compound shall be used for each one hundred (100) square feet of completed roof.
- (b) Asphalt compound shall be heated to not less than four hundred (400) degrees Fahrenheit.
- (c) Where steep roofs join flat sections, the roofing on flat sections shall be carried up the inclined surfaces not less than twenty-four (24) inches before the application of the N.I.S. roofing.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond covering a period of fifteen (15) years from date of completion, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its fifteen (15) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval, under conditions as follows:

- (a) That steep roof area shall be roofed in conjunction with flat roof area.
- (b) That the flat roof area shall be covered with a Building Products Limited Specification Roof, Series 1G to 11G.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited N.I.S. Roof (for use over wood decks) laid in strict accordance with Building Products Limited Specification No. 2MS, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for fifteen (15) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

2 plies B.P. 15# Special Asphalt Felt.....	32 lbs.
1 square (2 rolls) B.P. N.I.S. Roofing.....	110 "
90 lbs. B.P. 210° m.p. Asphalt Compound.....	90 "
2 lbs. Roofing Nails and Discs.....	2 "
Total Weight of Finished Roof.....	234 lbs.



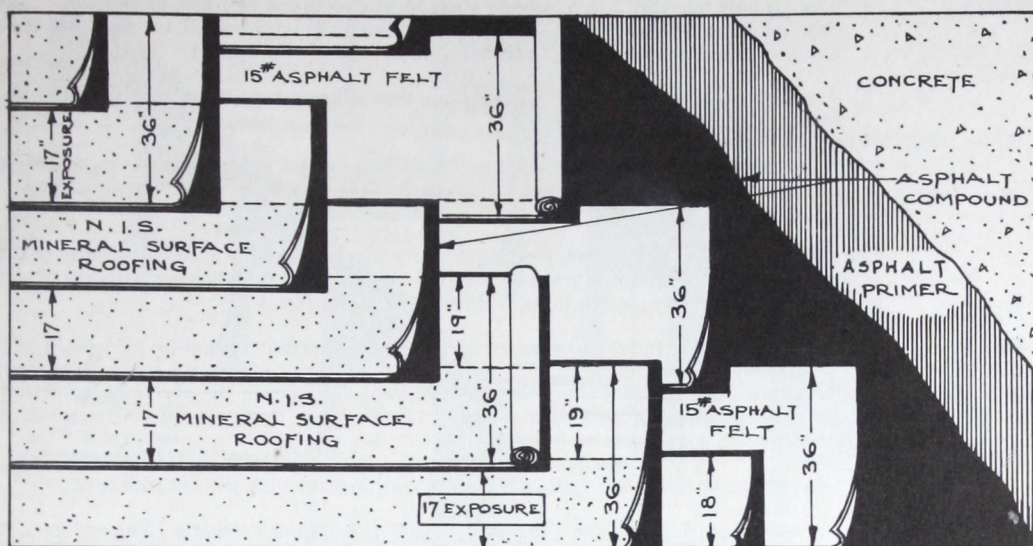
BUILDING PRODUCTS SPECIFICATION

Specification

N.I.S. ROOFING (19" SELVAGE EDGE)

No. 3MS

ROOF



For Use Over Poured Concrete or Gypsum Decks
For inclines exceeding 3" in 1' up to 6" in 1'

BONDED FOR 10 YEARS

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials. The concrete or gypsum shall permit nailing or creosoted wood nailing strips shall be provided. If nailing strips are provided they shall be laid parallel with the incline of the roof and shall be spaced not more than three (3) feet apart.

FIRST.

Over the entire surface of the roof deck spread with a mop a uniform coating of B.P. Asphalt Primer. Sufficient time shall be allowed for priming coat to thoroughly dry before proceeding with application of membrane proper.

SECOND.

Over the entire surface of the roof deck thus primed, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, shall be immediately rolled one (1) ply of B.P. 15# Special Asphalt Felt, laid at right angles to the incline of the roof, lapping each sheet six (6) inches over preceding one. The six (6) inch lap shall be thoroughly cemented together with B.P. 210° m.p. Asphalt Compound. The felt shall be nailed through flat tin discs not more than eighteen (18) inches apart.

THIRD.

Over the entire surface spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, shall immediately be rolled B.P. N.I.S. Roofing laid at right angles to incline of roof, lapping each sheet the full width of the nineteen (19) inch selvage edge. All sheets of N.I.S. roofing shall be securely fastened in place with a double course of one (1) inch barbed roofing nails driven through flat tin discs and placed along the selvage edge of sheet. Nailing courses shall be staggered and nails spaced not more than eighteen (18) inches apart. Lower nailing course shall be held back two (2) inches from mineral surfacing.

FOURTH.

Spread over the entire surface of the nineteen (19) inch selvage a uniform coating of B.P. 210° m.p. Asphalt Compound into which shall immediately be rolled the following sheet of N.I.S. Roofing.

FIFTH.

All end laps shall be overlapped at least six (6) inches. The underlying sheet of each end lap shall be nailed with six (6) nails through flat tin discs spaced five (5) inches apart, starting one (1) inch from lower edge of sheet. The six (6) inch lap shall be coated with B.P. 210° m.p. Asphalt Compound, and the overlapping sheet thoroughly pressed down.

SIXTH.

The N.I.S. Roofing shall be cut in lengths not exceeding twenty (20) feet and stacked flat in piles not less than twenty-four (24) hours before using.

GENERAL.

- (a) The asphalt felt and N.I.S. roofing shall be laid without wrinkles or buckles. Not less than ninety (90) pounds of 210° m.p. asphalt compound shall be used for each one hundred (100) square feet of completed roof.
- (b) Asphalt compound shall be heated to not less than four hundred (400) degrees Fahrenheit.
- (c) Where steep roofs join flat sections, the roofing on flat sections shall be carried up the inclined surfaces not less than twenty-four (24) inches before the application of the N.I.S. roofing.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited who shall furnish a Building Products Limited Guaranty Bond covering a period of ten (10) years from date of completion in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its ten (10) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval, under conditions as follows:

- (a) That the steep roof area shall be roofed in conjunction with the flat roof area.
- (b) That the flat roof area shall be covered with a Building Products Limited Specification Roof, Series 1G to 11G.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited N.I.S. Roof (for use over poured concrete or poured gypsum decks) laid in strict accordance with Building Products Limited Specification No. 3MS, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for ten (10) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

1 coating B.P. Asphalt Primer (1 gal.).....	10 lbs.
1 ply B.P. 15# Special Asphalt Felt.....	16 "
1 square (2 rolls) B.P. N.I.S. Roofing.....	110 "
90 lbs. B.P. 210° m.p. Asphalt Compound.....	90 "
2 lbs. Roofing Nails and Discs.....	2 "

Total Weight of Finished Roof..... 228 lbs.



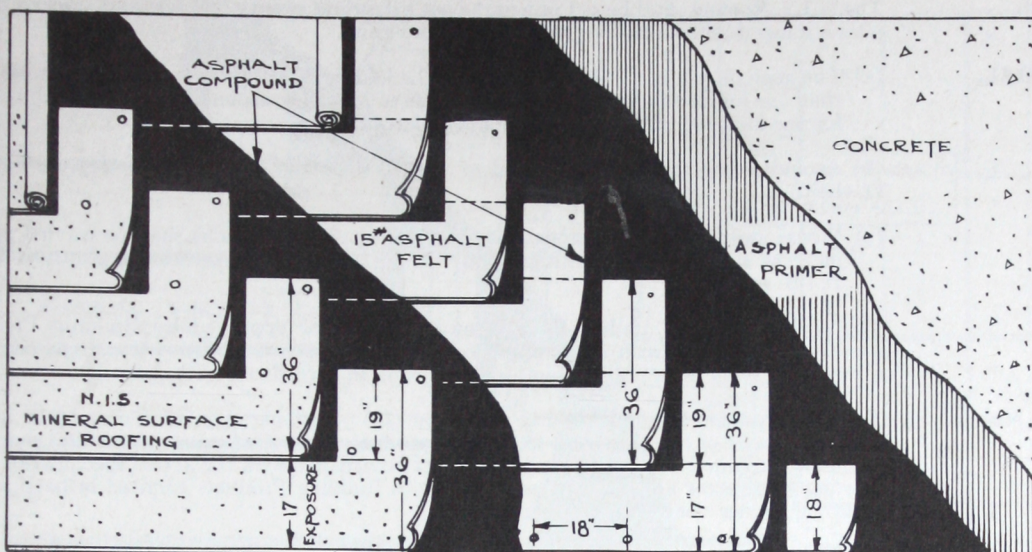
BUILDING PRODUCTS SPECIFICATION

Specification

N.I.S. ROOFING (19" SELVAGE EDGE)

No. 4MS

ROOF



**For Use Over Poured Concrete or Poured Gypsum Decks
For inclines exceeding 3" in 1' up to 6" in 1'**

BONDED FOR 15 YEARS

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials. The concrete or gypsum shall permit of nailing, or creosoted wood nailing strips shall be provided. If nailing strips are provided, they shall be laid parallel with the incline of the roof and shall be spaced not more than three (3) feet apart.

FIRST.

Over the entire surface of the roof deck spread with a mop a uniform coating of B.P. Asphalt Primer. Sufficient time shall be allowed for priming coat to thoroughly dry before proceeding with application of membrane proper.

SECOND.

Over the entire surface of the roof deck thus primed, spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, shall be immediately rolled two (2) plies of B.P. 15# Special Asphalt Felt, laid at right angles to the incline of roof, lapping each sheet nineteen (19) inches over preceding one. The nineteen (19) inch lap shall be thoroughly cemented together with B.P. 210° m.p. Asphalt Compound. The felt shall be nailed through flat tin discs along upper edge of sheet, nails to be spaced not more than eighteen (18) inches apart.

THIRD.

Over the entire surface spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, shall immediately be rolled B.P. N.I.S. Roofing, laid at right angles to incline of roof, lapping each sheet the full width of the nineteen (19) inch selvage edge. All sheets of N.I.S. Roofing shall be securely fastened in place with a double course of one (1) inch barbed roofing nails driven through flat tin discs and placed along the selvage edge of sheet. Nailing courses shall be staggered and nails spaced not more than eighteen (18) inches apart. Lower nailing course shall be held back two (2) inches from mineral surfacing.

FOURTH.

Spread over the entire surface of the nineteen (19) inch selvage a uniform mopping of B.P. 210° m.p. Asphalt Compound, into which shall immediately be rolled the following sheet of N.I.S. Roofing.

FIFTH.

All end laps shall be overlapped at least six (6) inches. The underlying sheet of each end lap shall be nailed with six (6) nails through flat tin discs spaced five (5) inches apart, starting

one (1) inch from lower edge of sheet. The six (6) inch lap shall be coated with B.P. 210° m.p. Asphalt Compound, and the overlapping sheet thoroughly pressed down.

SIXTH.

The N.I.S. Roofing shall be cut in lengths not exceeding twenty (20) feet and stacked flat in piles not less than twenty-four (24) hours before using.

GENERAL.

- (a) The asphalt felt and N.I.S. roofing shall be laid without wrinkles or buckles. Not less than one hundred and twenty (120) pounds of 210° m.p. asphalt compound shall be used for one hundred (100) square feet of completed roof.
- (b) Asphalt compound shall be heated to not less than four hundred (400) degrees Fahrenheit.
- (c) Where steep roofs join flat sections, the roofing on flat sections shall be carried up the inclined surfaces not less than twenty-four (24) inches before the application of the N.I.S. roofing.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited, who shall furnish a Building Products Limited Guaranty Bond covering a period of fifteen (15) years from date of completion of roof, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its fifteen (15) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval, under conditions as follows:

- (a) That the steep roof area shall be roofed in conjunction with flat roof area.
- (b) That the flat roof area shall be covered with a Building Products Limited Specification Roof, Series 1G to 11G.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited N.I.S. Roof (for use over poured concrete or poured gypsum decks) laid in strict accordance with Building Products Limited Specification No. 4MS, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for fifteen (15) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

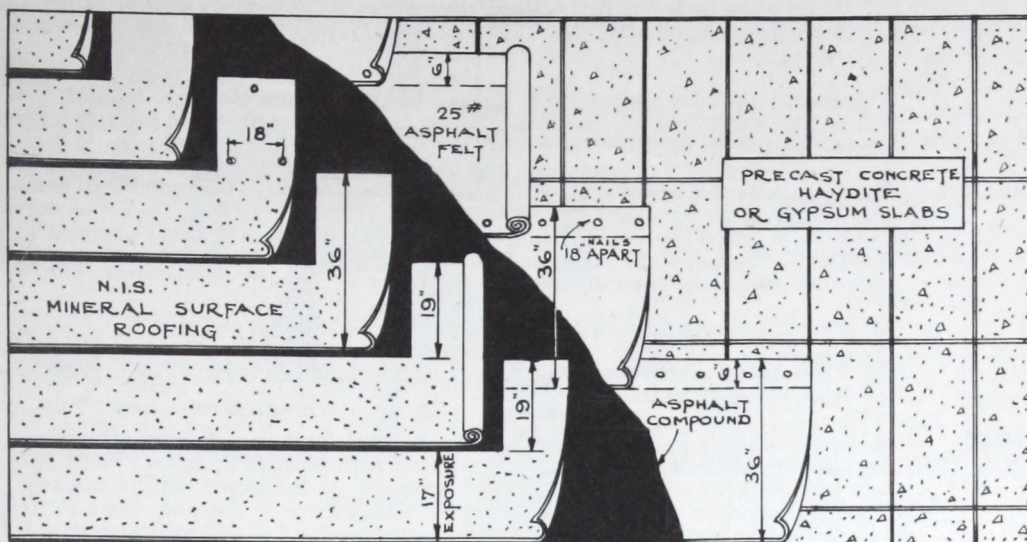
1 coating B.P. Asphalt Primer (1 gal.).....	10 lbs.
2 plies B.P. 15# Special Asphalt Felt.....	33 "
1 square (2 rolls) B.P. N.I.S. Roofing.....	110 "
120 lbs. B.P. 210° m.p. Asphalt Compound.....	120 "
2 lbs. Roofing Nails and Discs.....	2 "
Total Weight of Finished Roof.....	275 lbs.



N.I.S. ROOFING (19" SELVAGE EDGE)

No. 5MS

ROOF



For Use Over Precast Concrete, Haydite or Gypsum Slabs
For inclines exceeding 3" in 1' up to 6" in 1'

BONDED FOR 10 YEARS

ROOF DECK.

The roof deck shall be smooth, firm, dry and free from loose materials. All joints between precast concrete, haydite or gypsum shall be properly grouted. The concrete, haydite or gypsum shall permit of nailing, or creosoted wood nailing strips shall be provided. If nailing strips are provided, they shall be laid parallel with the incline of roof, and shall be spaced not more than three (3) feet apart.

FIRST.

Over the entire surface lay one (1) ply of B.P. 25# Asphalt Felt, lapping each sheet six (6) inches over preceding one, and nailing along lapped edge with barbed roofing nails through flat tin discs, spacing the nails not more than eighteen (18) inches apart.

SECOND.

Over the entire surface spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, shall be immediately rolled B.P. N.I.S. Roofing, laid at right angles to incline of roof, lapping each sheet the full width of the nineteen (19) inch selvage. All sheets of N.I.S. Roofing shall be securely nailed in place with a double course of one (1) inch barbed roofing nails, driven through flat tin discs placed along the selvage edge of sheet. Nailing courses shall be staggered, and nails spaced not more than eighteen (18) inches apart. The lower nailing course shall be held back two (2) inches from mineral surfacing.

THIRD.

Spread over the entire surface of the nineteen (19) inch selvage a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, shall immediately be rolled the following sheet of N.I.S. Roofing.

FOURTH.

All end laps shall be overlapped at least six (6) inches. The underlying sheet of each end lap shall be nailed with six (6) nails through flat tin discs, spaced five (5) inches apart, starting one (1) inch from lower edge of sheet. The six (6) inch lap shall be coated with B.P. 210° m.p. Asphalt Compound and the overlapping sheet thoroughly pressed down.

FIFTH.

The N.I.S. Roofing shall be cut in lengths not exceeding twenty (20) feet, and stacked flat in piles not less than twenty-four (24) hours before using.

GENERAL.

(a) The asphalt felt and N.I.S. roofing shall be laid without wrinkles or buckles. Not less than sixty (60) pounds of 210° m.p. asphalt compound shall be used for one hundred (100) square feet of completed roof.

- (b) Asphalt compound shall be heated to not less than four hundred (400) degrees Fahrenheit.
- (c) Where steep roofs join flat sections, the roofing on flat sections shall be carried up the inclined surfaces not less than twenty-four (24) inches before the application of N.I.S. roofing.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited, who shall furnish a Building Products Limited Guaranty Bond covering a period of ten (10) years from date of completion of roof, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its ten (10) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification, by a Roofing Contractor, approved by and subject to Building Products Limited inspection and approval, under conditions as follows:

- (a) That steep roof area shall be roofed in conjunction with flat roof area.
- (b) That the flat roof area shall be covered with a Building Products Limited Specification Roof, Series 1G to 11G.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited N.I.S. Roof (for use over precast concrete, haydite or gypsum slabs) laid in strict accordance with Building Products Limited Specification No. 5MS, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for ten (10) years from date of completion in accordance with Note No. 1 of said specification.

MATERIALS.

Material required per 100 square feet of completed roof surface, gross weight:

1 ply B.P. 25# Asphalt Felt.....	27 lbs.
1 square (2 rolls) B.P. N.I.S. Roofing.....	110 "
60 lbs. B.P. 210° m.p. Asphalt Compound.....	60 "
2 lbs. Roofing Nails and Discs.....	2 "
Total Weight of Finished Roof.....	199 lbs.



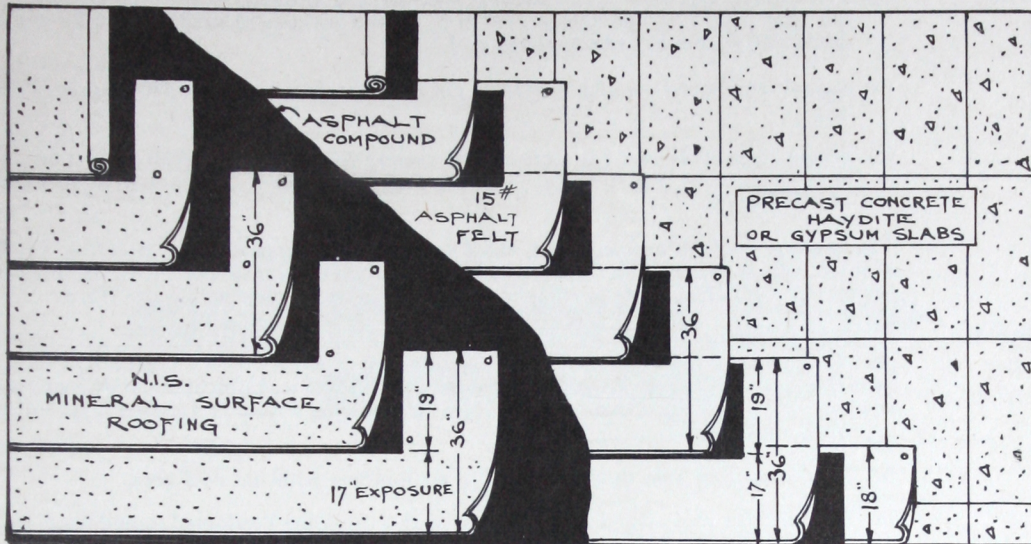
BUILDING PRODUCTS SPECIFICATION

Specification

N.I.S. ROOFING (19" SELVAGE EDGE)

No. 6MS

ROOF



**For Use Over Precast Concrete, Haydite or Gypsum Slabs
For inclines exceeding 3" in 1' up to 6" in 1'**

BONDED FOR 15 YEARS

ROOF DECK.

All joints between precast concrete, haydite or gypsum slabs shall be properly grouted. The roof deck shall be smooth, firm, dry and free from loose materials. The concrete, haydite or gypsum shall permit of nailing, or creosoted wood nailing strips shall be provided. If nailing strips are provided, they shall be laid parallel with the incline of the roof, and shall be placed not more than three (3) feet apart.

FIRST.

Over the entire surface of the roof deck lay two (2) plies of B.P. 15# Special Asphalt Felt, lapping each sheet nineteen (19) inches over preceding one. Each sheet shall be nailed two (2) inches from the upper edge of sheet with barbed roofing nails through flat tin discs. Nails shall be spaced not more than eighteen (18) inches apart.

SECOND.

After the felt is thus laid, each sheet shall be mopped back from lower edge for a distance of seventeen (17) inches with B.P. 210° m.p. Asphalt Compound. Care shall be taken to see that all felt is thoroughly embedded in hot moppings and be free from all wrinkles and buckles.

THIRD.

Over the entire surface spread with a mop a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, shall be immediately rolled B.P. N.I.S. Roofing, laid at right angles to incline of roof, lapping each sheet the full width of the nineteen (19) inch selvage. All sheets of N.I.S. Roofing shall be securely nailed in place with a double course of one (1) inch barbed Roofing nails, driven through flat tin discs placed along the selvage edge of sheet. Nailing courses shall be staggered and nails spaced not more than eighteen (18) inches apart. The lower nailing courses shall be held back two (2) inches from mineral surfacing.

FOURTH.

Spread over the entire surface of the nineteen (19) inch selvage a uniform coating of B.P. 210° m.p. Asphalt Compound into which, while hot, shall be immediately rolled the following sheet of N.I.S. Roofing.

FIFTH.

All end laps shall be overlapped at least six (6) inches. The underlying sheet of each end lap shall be nailed with six (6) nails through flat tin discs spaced five (5) inches apart, starting one (1) inch from lower edge of sheet. The six (6) inch lap shall be coated with 210° m.p. Asphalt Compound and the overlapping sheet thoroughly pressed down.

SIXTH.

The N.I.S. Roofing shall be cut in lengths not exceeding twenty (20) feet, and stacked flat in piles not less than twenty-four (24) hours before using.

GENERAL.

- (a) The asphalt felt and N.I.S. roofing shall be laid without wrinkles or buckles. Not less than ninety (90) pounds of 210° m.p. asphalt compound shall be used for one hundred (100) square feet of completed roof.
- (b) Asphalt compound shall be heated to not less than four hundred (400) degrees Fahrenheit.
- (c) Where steep roofs join flat sections, the roofing on flat sections shall be carried up the inclined surfaces not less than twenty-four (24) inches before the application of N.I.S. roofing.

The roofing shall be applied by a Roofing Contractor approved by Building Products Limited, who shall furnish a Building Products Limited Guaranty Bond covering a period of fifteen (15) years from date of completion of roof, in accordance with Note No. 1.

NOTE No. 1.

Building Products Limited will give its fifteen (15) year Guaranty Bond on all jobs in any part of Canada of five thousand (5,000) square feet or more where its inspection service is available, provided the roof is applied in strict accordance with the above specification by a Roofing Contractor approved by and subject to Building Products Limited inspection and approval, under conditions as follows:

- (a) That steep roof area shall be roofed in conjunction with flat roof area.
- (b) That the flat roof area shall be covered with a Building Products Limited Specification Roof, Series 1G to 11G.

CONDENSED SPECIFICATION.

Roofing shall be a Building Products Limited N.I.S. Roof (for use over precast concrete, haydite or gypsum slabs) laid in strict accordance with Building Products Limited Specification No. 6 MS, by a Roofing Contractor approved by Building Products Limited. The Roofing Contractor shall furnish a Building Products Limited Guaranty Bond for fifteen (15) years from date of completion, in accordance with Note No. 1 of said specification.

MATERIALS.

Materials required per 100 square feet of completed roof surface, gross weight:

2 plies B.P. 15# Special Asphalt Felt.....	32 lbs.
1 square (2 rolls) B.P. N.I.S. Roofing.....	110 "
90 lbs. B.P. 210° m.p. Asphalt Compound.....	90 "
2 lbs. Roofing Nails and Discs.....	2 "
Total Weight of Finished Roof.....	234 lbs.



BUILDING PRODUCTS LIMITED SPECIFICATIONS

SECTION 4

FLASHING REQUIREMENTS for BUILT-UP ROOFS

BUILT-UP ROOFS

BUILT-UP ROOFS

SPECIFICATIONS

BUILT-UP ROOFS

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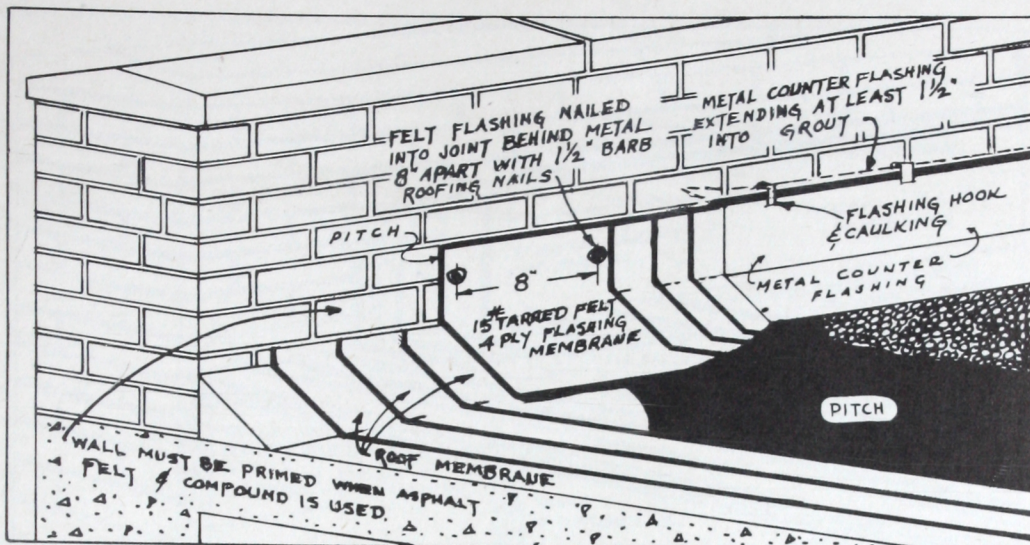
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and FLASHING REQUIREMENTS



Standard Four Ply Construction, With Metal Counter Flashing For use with 20 Year Bonded Roofs

NOT BONDED

INSTALLATION. Tarred Felt, Coal Tar Pitch Flashing Membrane.

After all plies of roofing have been laid, and before finished surface of roofing is installed, the Roofing Contractor shall set in place at the angle of the roof deck and vertical surfaces, four (4) plies of B.P. 15# Special Tarred Felt, solidly mopped together with B.P. Coal Tar Pitch. All plies of felt shall extend up the face of all walls and vertical surfaces not less than four (4) inches. The last ply of felt shall be coated with Coal Tar Pitch. The Felt Flashing Strips shall be laid without wrinkles or buckles, and all joints broken.

INSTALLATION OF METAL COUNTER FLASHING.

On completion of felt and pitch flashing membrane, the metal counter flashing shall be installed into flashing grout provided in all walls and vertical surfaces to a depth of not less than one and one-half (1½) inches. Counter flashing shall extend down face of wall and face of cant strip to roof line, so as to completely cover felt flashing membrane. Counter flashing shall be fastened in place with flashing hooks driven home solid, and the flashing grout then pointed up with Plastic Cement. Flashing hooks shall be placed at every three (3) feet. End laps of counter flashing shall be locked joints and soldered.

NOTE A: Where fifteen (15) year bonded roof is used, same procedure shall be followed, except that three (3) plies of B.P. 15# Special Tarred Felt and four (4) moppings of B.P. Coal Tar Pitch shall be used.

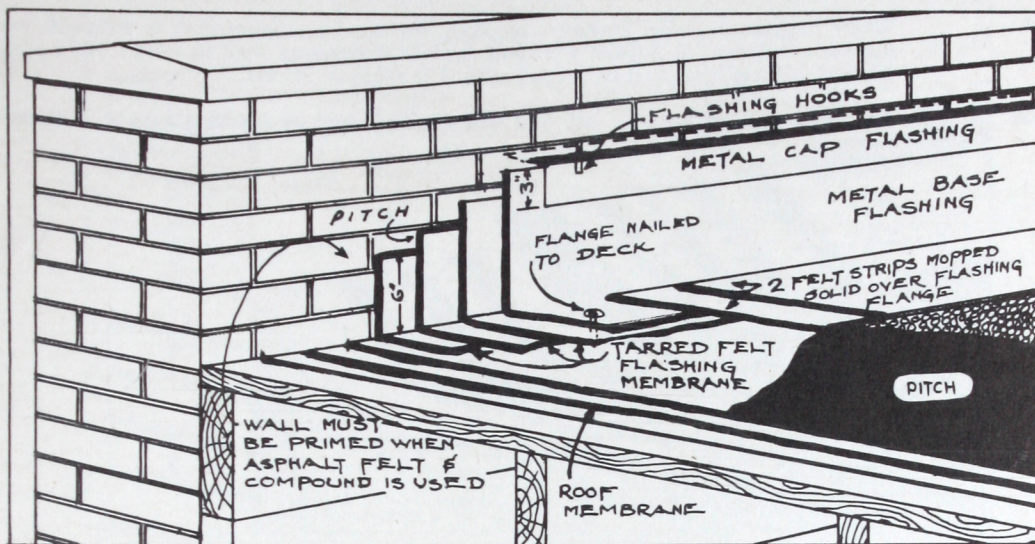
NOTE B: Where ten (10) year bonded roof is used, same procedure shall be followed, except that two (2) plies of B.P. 15# Special Tarred Felt and three (3) moppings of B.P. Coal Tar Pitch shall be used.

NOTE C: All flashings shall be set in place prior to the installation of finished roof surface.

NOTE D: Where B.P. Asphalt Built-Up Roofs are used, Asphalt Felt and Compound, as used in the roof construction, shall be used. All walls and vertical surfaces shall be primed with B.P. Asphalt Primer.



and FLASHING REQUIREMENTS



Cap and Base Type For Use on Masonry Walls

NOT BONDED

INSTALLATION CAP FLASHING.

Cap Flashing shall be set into brick wall to a distance of four (4) inches and turned up one (1) inch behind the first course of brick. It shall extend down the face of the wall so as to overlap the Base Flashing not less than three (3) inches. End laps shall be not less than three (3) inches and soldered.

INSTALLATION FELT AND PITCH FLASHING MEMBRANE.

After all plies of roofing have been laid, and before finished surface of roofing is installed, the Roofing Contractor shall set in place at the angle of the roof deck and vertical surfaces three (3) plies of B.P. 15# Special Tarred Felt, solidly mopped together with B.P. Coal Tar Pitch. All plies of felt shall extend up the face of the wall not less than six (6) inches, and out on roof not less than four (4) inches. The last ply of felt shall be coated with coal tar pitch. The felt flashing strips shall be laid without wrinkles or buckles, and all joints broken.

INSTALLATION BASE FLASHING.

1. On completion of felt and pitch membrane, the metal base flashing shall be set in place, extending out on roof not less than six (6) inches, and up the vertical surface not less than twelve (12) inches. The base flashing shall be nailed to the roof deck with barbed roofing nails spaced three (3) inches apart, and on a line not more than three (3) inches from outside edge of metal.

Where concrete deck is used and does not permit of nailing, a creosoted wood nailing strip shall be installed to a depth of three (3) inches at base, with nailing face not less than two (2) inches in width. Nailing strip shall be set in line not more than three (3) inches from vertical surface.

2. All end laps of base flashing should be locked and soldered.
3. The four (4) inch flange of metal base flashing shall be primed with B.P. Black Carbon Paint. It shall then be mopped with B.P. Coal Tar Pitch into which, while hot, shall be embedded a

strip of B.P. 15# Special Tarred Felt, extending out over edge of flange not less than three (3) inches. A second strip of B.P. 15# Special Tarred Felt shall then be mopped in place, and shall extend out over edge of first felt strip not less than three (3) inches.

NOTE A:

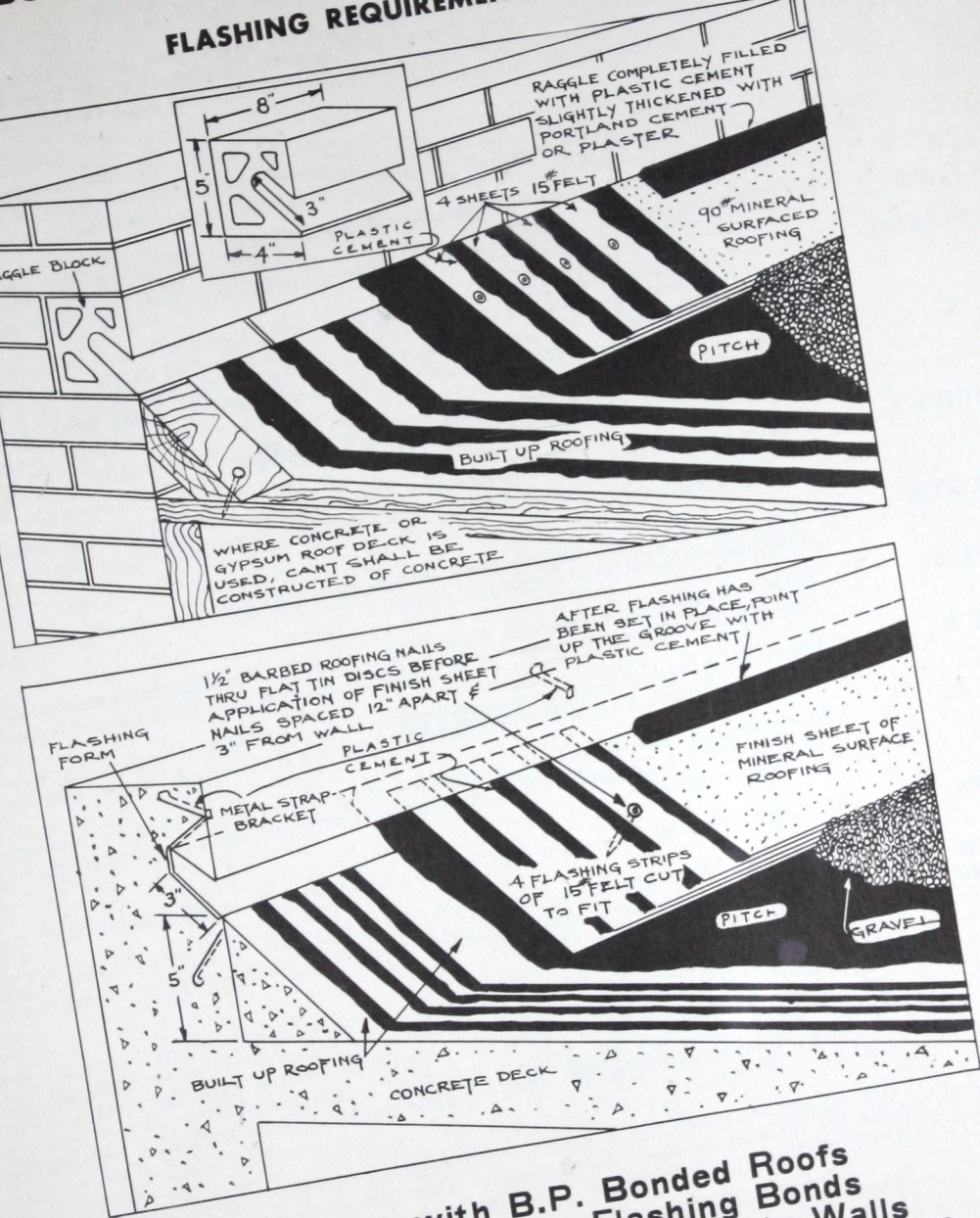
Where Asphalt Built-Up Roofs are specified, the same procedure shall be followed, except that B.P. 15# Special Asphalt Felt and Asphalt Compound shall be used. All walls and vertical surfaces must first be primed with B.P. Asphalt Primer.

NOTE B:

The type of metal used for cap and base flashing shall be specified by the Architect or Engineer.



FLASHING REQUIREMENTS



**For Use with B.P. Bonded Roofs
10, 15 or 20 Year Flashing Bonds
For Use in Masonry or Concrete Walls
Where Raggle Blocks or Flashing Forms are Used**

DESCRIPTION

Raggle Blocks are glazed masonry blocks which are installed by mason contractor during the construction of parapet or fire walls. They are 4" x 5" x 8" in size, and each raggle block replaces two bricks in the wall.

Flashing Form is a smooth metal trough with brackets, nailed to the inside of concrete forms when a parapet wall or other vertical surface is built, so that when forms are stripped off, a flashing groove remains.

**RAGGLE
BLOCK.**

**FLASHING
FORM.**

Issued March, 1946

PAGE No. 57

CONSTRUCTION
DETAILS FOR
BUILT-UP ROOFS

(ROOF INSULATIONS
SPECIFICATIONS)

INSTALLATION

RAGGLE BLOCK FLASHING FORM.

They shall be installed at a height of five (5) inches from the roof deck line. Where wood decks are used, cant strip of wood shall be provided extending from lower edge of raggle block groove down to roof deck proper, and set in place at an angle of 45°. The cant strip shall not exceed ten (10) inches in depth.

Where decks are of concrete or gypsum, cant strip shall be of same material. The cant strip shall be installed from the lower edge of flashing form groove down to roof deck proper at an angle of 45°. Cant strip shall not exceed ten (10) inches in depth.

FLASHING REQUIREMENTS

FIRST.

All felts of roofing membrane shall be run up to the top of the cant strip and cut off.

SECOND.

Set in over them a coating of B.P. Plastic Cement, into which shall be embedded a sheet of B.P. 15# Special Tarred Felt extending up and into the full depth of flashing groove, and down to roof line. This process shall be followed until four (4) sheets of B.P. 15# Special Tarred Felt and five (5) coatings of B.P. Plastic Cement are installed. After all plies of felt and plastic have been installed, a nailing course placed on twelve (12) inch centres shall be used. After last ply of felt has been installed, the felt flashing strips shall be laid without wrinkles or buckles and all joints broken.

THIRD.

Over the last sheet of felt, embed in B.P. Plastic Cement a sheet of B.P. 90# Mineral Surfaced Roofing of sufficient girth to extend up into the flashing groove to its full depth, and down to the roof line.

FOURTH.

The flashing groove shall then be completely filled with B.P. Plastic Cement, slightly thickened with Portland Cement or Plaster.

NOTE A:

Where 15 year bond is required, the same procedure shall be followed, except that three (3) plies of B.P. 15# Special Tarred Felt and four (4) layers of B.P. Plastic Cement shall be used.

NOTE B:

Where 10 year bond is required, same procedure shall be followed, except that two (2) plies of B.P. 15# Special Tarred Felt and three (3) layers of B.P. Plastic Cement shall be used.

NOTE C:

Where Asphalt Built-Up Roofs are specified, the same procedure shall be followed, except that B.P. 15# Special Asphalt Felt and Asphalt Compound shall be substituted in place of B.P. Plastic Cement.

NOTE D:

All flashings shall be set in place prior to the installation of the finished roof surface.

METAL COUNTER FLASHING.

Where raggle blocks or flashing forms are NOT used, ONLY AT Building Products Limited option shall the preceding specifications be acceptable for bonding, providing the metal counter flashing is installed as follows:

The metal cap flashing shall be set into flashing grout to a depth of not less than one-half ($\frac{1}{2}$) inch, and shall extend down face of wall and onto cant strip not less than two (2) inches, so that all flashing strips and nailing are completely covered with the metal. Counter flashing shall be fastened into grout with flashing hooks, spaced three (3) feet apart, and the grout completely filled with B.P. Plastic Cement, slightly thickened with Portland Cement or Plaster.

NOTE:

When bonds are issued where metal counter flashings are used, Building Products Limited bond the Bituminous Base Flashings only. They will not accept responsibility under any conditions due to failure, defects or disintegration of the metal used.

NOTE:

20-year flashing bond requires 16 oz. copper.

15-year flashing bond requires 16 oz. copper.

10-year flashing bond requires 26 gauge galvanized iron.



BUILDING PRODUCTS LIMITED SPECIFICATIONS

SECTION 5

CONSTRUCTION DETAILS for BUILT-UP ROOFS

CONSTRUCTION
DETAILS FOR
BUILT-UP ROOFS

(ROOFING)
SPECIFICATIONS

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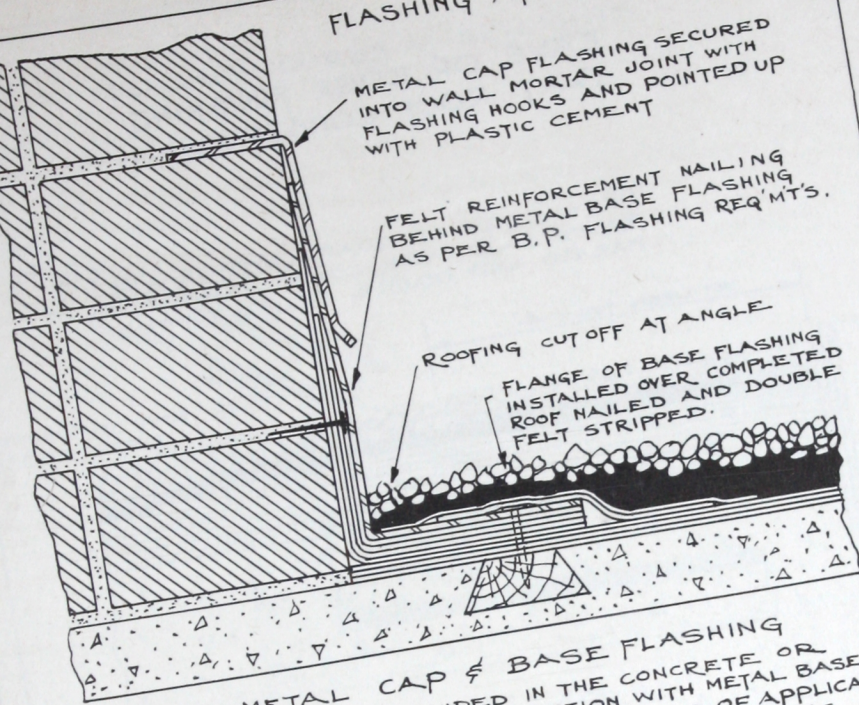
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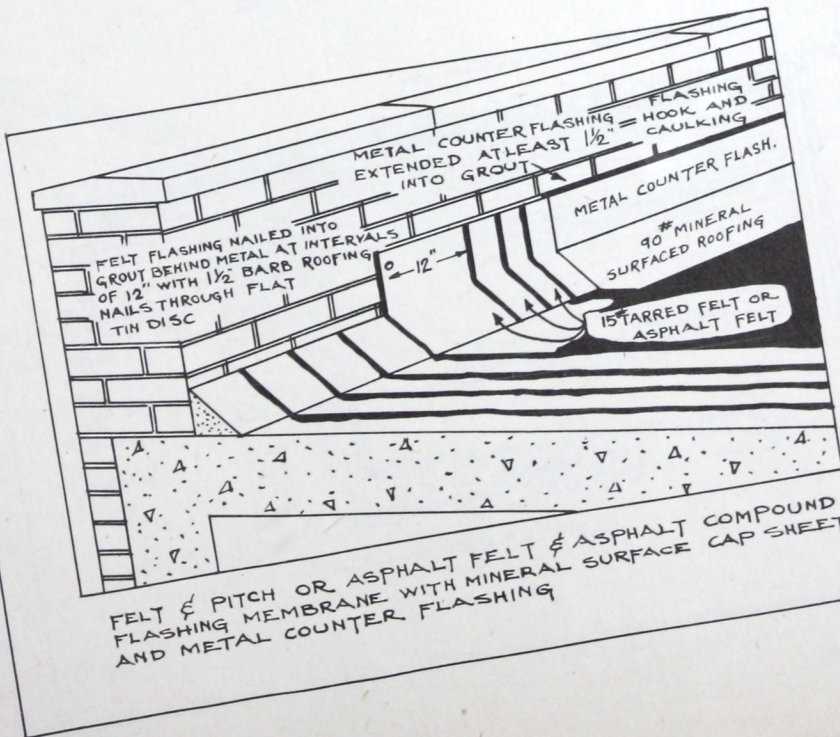
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FLASHING



METAL CAP & BASE FLASHING

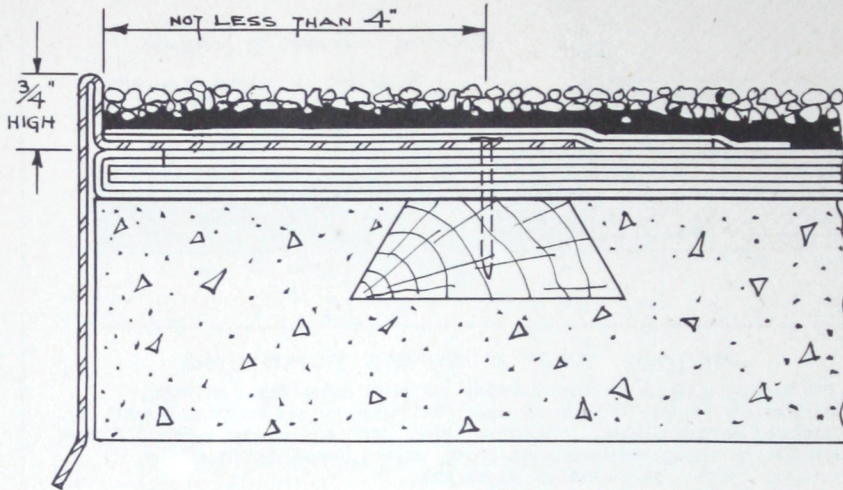
IF NO NAILING STRIP IS PROVIDED IN THE CONCRETE OR INSULATION IS TO BE USED IN CONNECTION WITH METAL BASE AND COUNTER FLASHING FOLLOW THE DETAILS OF APPLICATION AS SHOWN IN REQUIREMENTS FOR APPLYING BUILDING PRODUCTS LTD., BONDED ROOFS



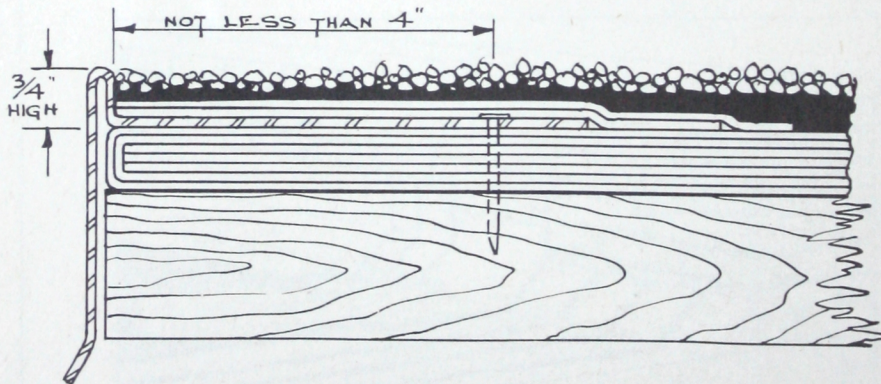
CONSTRUCTION DETAILS

EAVE OR EDGE FINISHING FLAT ROOF CONSTRUCTION

METAL GRAVEL GUARD WITH GRAVEL
ROOFS LAID OVER COMPLETED ROOFING
NAILED AND DOUBLE FELT STRIPPED



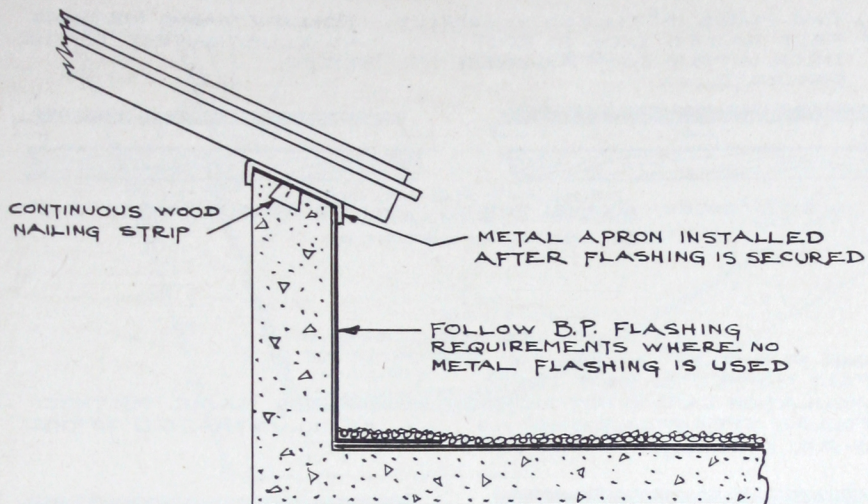
FOR CONCRETE DECK
GRAVEL SURFACE



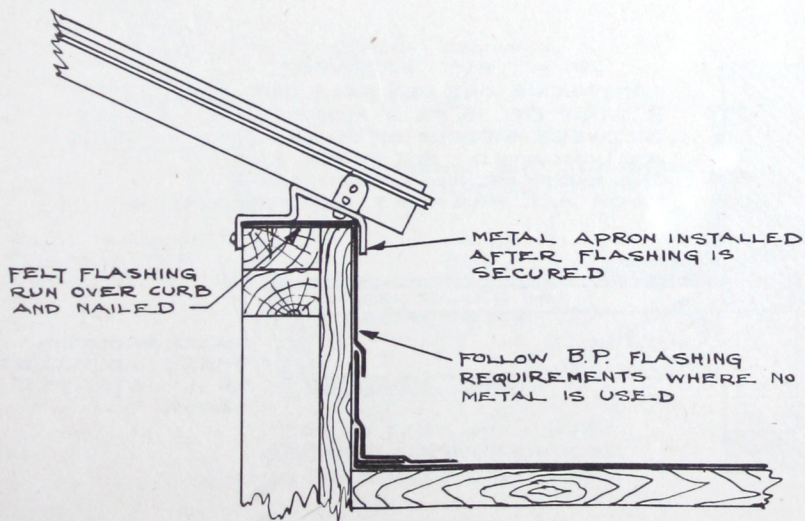
FOR WOOD DECK
GRAVEL SURFACE

CONSTRUCTION DETAILS

FLASHING CURBS AT SKYLIGHTS



CONCRETE CURB

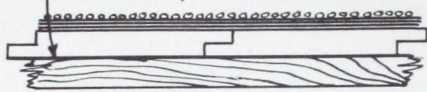


WOOD CURB

CONSTRUCTION DETAILS

BUILT-UP ROOFS WITH INSULATION

TWO PLYS 15# TARRED OR ASPHALT FELT NAILED DRY TO ROOF DECK APPLY ROOF AS OVER CONCRETE



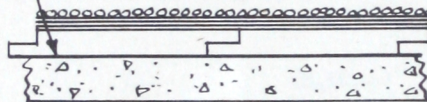
WOOD DECK - GRAVEL ROOF

FOLLOW SAME METHOD AS ILLUSTRATED TO THE LEFT.



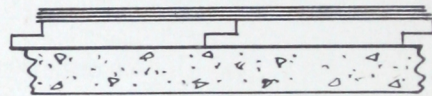
WOOD DECK - SMOOTH ROOF

ONE PLY OF 15# ASPHALT FELT MOPPED TO ROOF DECK INSULATION LAID IN HOT MOPPING FOLLOW SPECIFICATIONS AS OVER CONCRETE

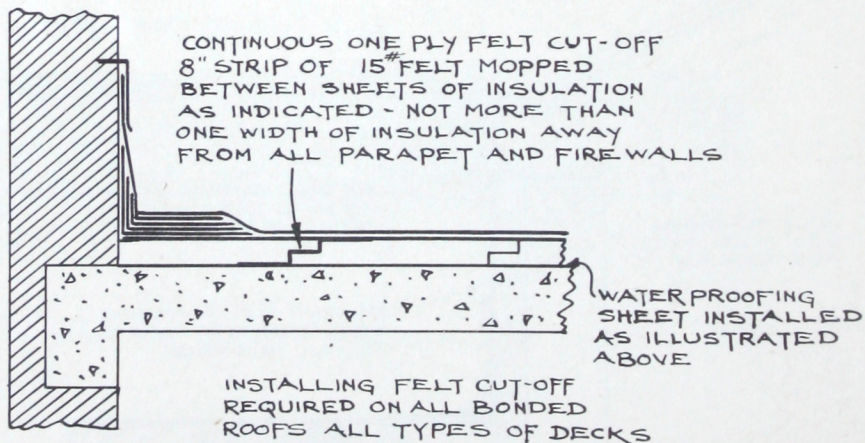


CONCRETE DECK - GRAVEL ROOF

FOLLOW SAME METHOD AS ILLUSTRATED TO THE LEFT



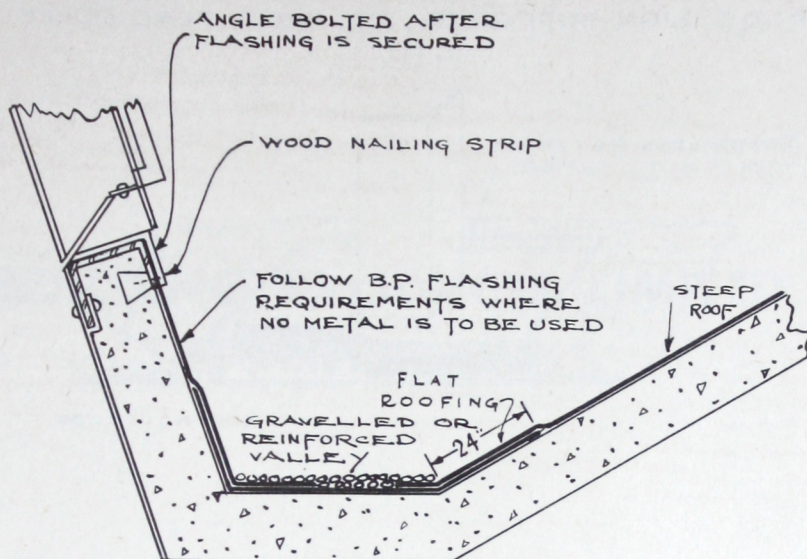
CONCRETE DECK - SMOOTH ROOF



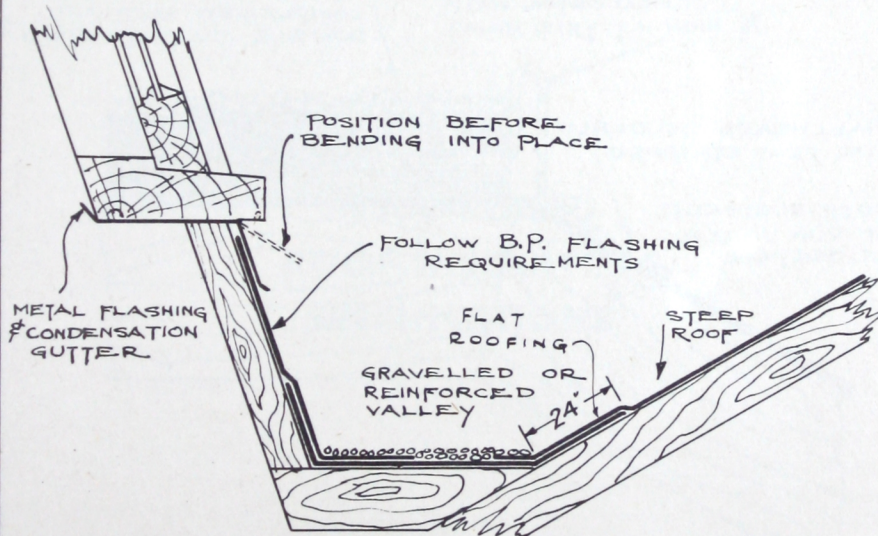
WHERE INSUL-BOARD ROOF INSULATOR IS USED NO WATER PROOF COURSE REQUIRED

CONSTRUCTION DETAILS

FLASHING CURBS AT SAWTOOTH



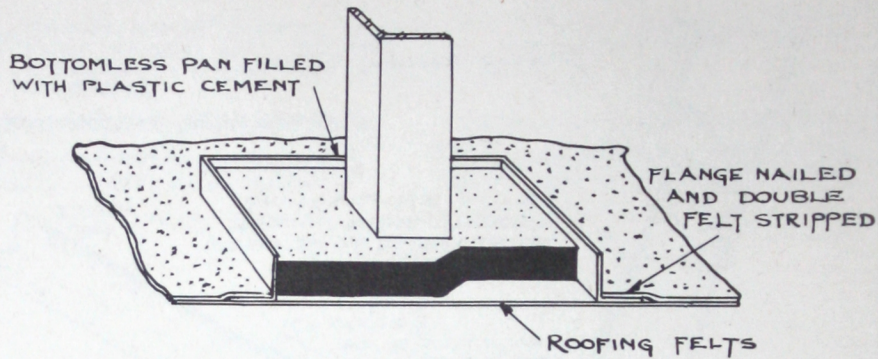
CONCRETE CURB



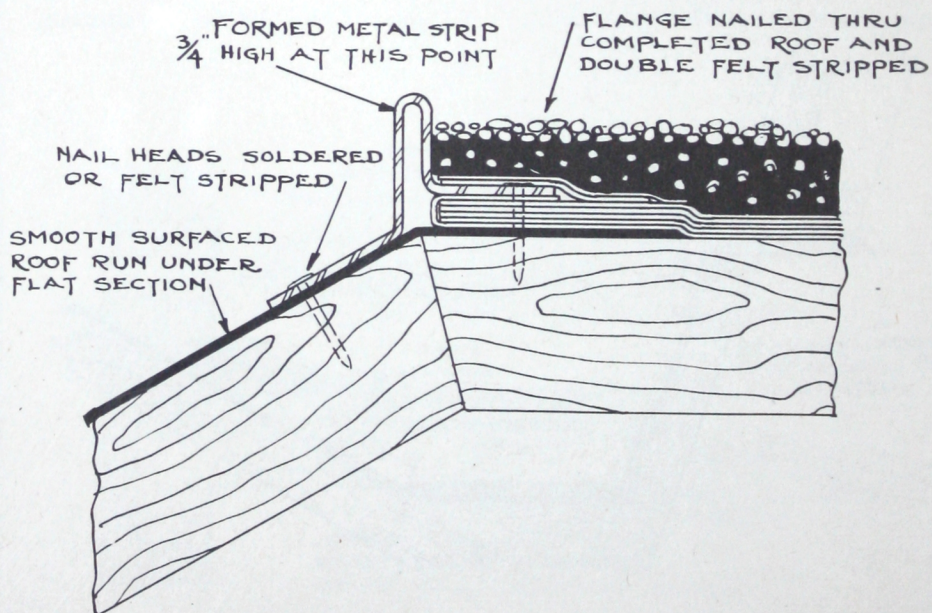
WOOD CURB

CONSTRUCTION DETAILS

PLASTIC PAN FOR RODS, SIGN SUPPORTS, EYEBOLTS, FLAG POLES ETC.



JUNCTION OF FLAT & STEEP ROOFS



**BUILDING PRODUCTS LIMITED
SPECIFICATIONS**

SECTION 6

**INSUL-BOARD
ROOF INSULATOR
SPECIFICATIONS**

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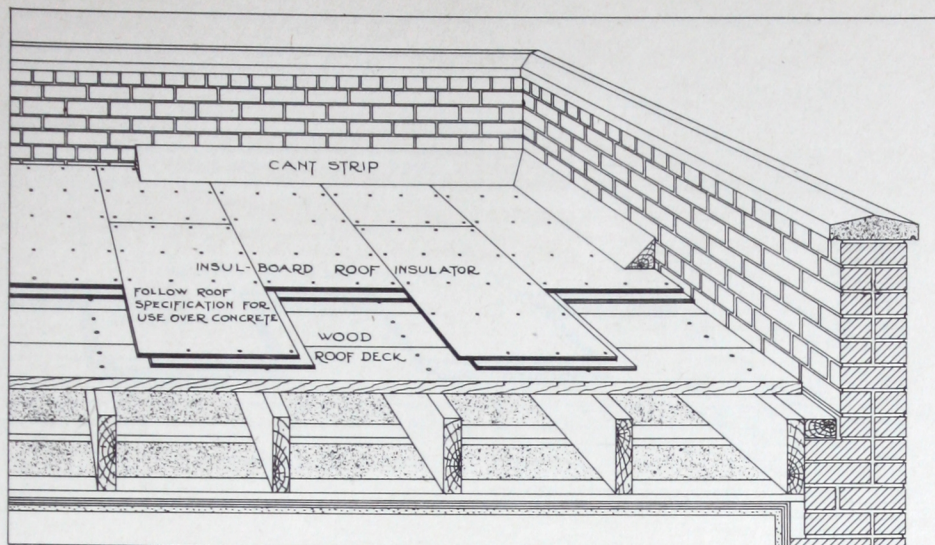
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INSUL-BOARD ROOF INSULATION



For Use Over Wood Decks

ROOF DECK. The roof deck shall be of seasoned lumber, firm, smooth and free from loose boards, large cracks, knot-holes and loose material, dry and free from ice and snow.

APPLICATION OF ROOF INSULATION.

1. The roof insulation shall be Insul-Board Roof Insulator (size 2' x 5'), as manufactured in Canada by Building Products Limited, of a density not exceeding 22 lbs. per cubic foot, furnished and applied by the Roofing Contractor in layers having a combined thickness of inches.
2. Remove the ship-lap from one edge of starter course of Insul-Board Roof Insulator so that the full thickness of Insul-Board as specified shall be obtained over the whole area. This shall also be done at the ends of courses and wherever sheets meet vertical projections, etc.
3. Over the entire roof area apply Insul-Board Roof Insulator, bringing edges into moderate contact and securing each sheet in place by nailing with large headed roofing nails $\frac{3}{4}$ " longer than the total thickness of the Insul-Board. The field of the sheet shall be nailed first, using not less than one nail per square foot of area, the nails to be even distributed over the face of the sheet. The sheets shall then be nailed on 8" centres $\frac{1}{2}$ " from all edges.

All nails shall be driven well home. The sheets shall be cut to fit neatly at walls and all projections in the roof deck and shall not be crowded or forced into place.

4. Carry the Insul-Board up to all vertical projections placing cant strip over the Insul-Board.
5. **NOTE:** When the total thickness of Insul-Board is to be applied in one layer this clause 5 should be omitted.

Each layer of Insul-Board Roof Insulator shall break joints with the preceding one. Nails shall be driven through the top and underlying sheets, using nails $\frac{3}{4}$ " longer than the total thickness of Insul-Board. Alternate layers shall run parallel to each other and at no time shall sheets be laid with alternate layers at right angles or crosswise to each other.

6. Only as much Insul-Board shall be laid in one day as can be covered the same day with roofing membrane. At the end of each day's work, all exposed edges shall be sealed over with a strip of saturated felt temporarily mopped into place.

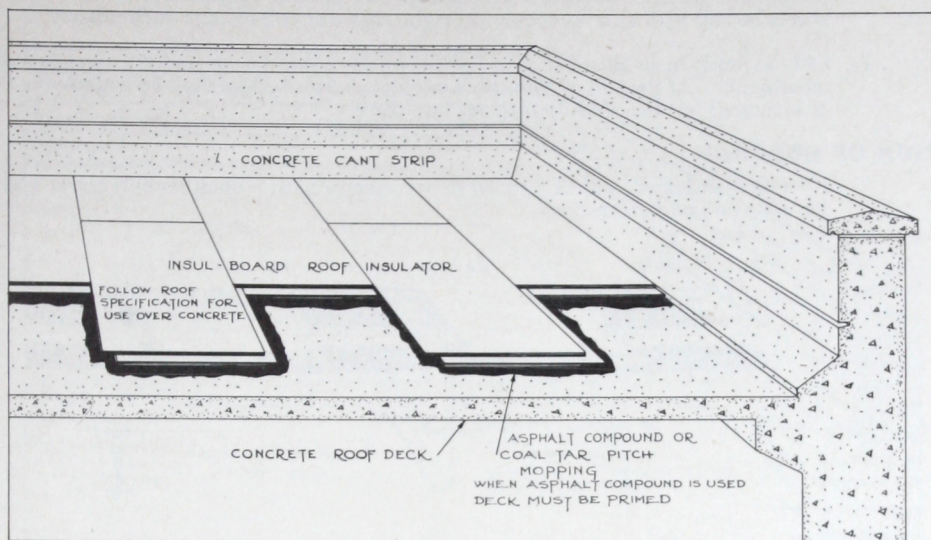
APPLICATION OF ROOFING.

Roofing membrane shall be applied in accordance with roofing manufacturer's specification for use over concrete decks.



INSUL-BOARD ROOF INSULATION

IB. 2



For Use Over Poured Concrete or Poured Gypsum Decks

ROOF DECK.

The roof slab shall be smooth, firm, dry and well cured and the surface of the roof free from loose material, debris, ice and snow. The finished surface of the slab shall be subject to the approval of the Architect or Engineer and acceptable to the Building Products Limited Inspector before the work of roof insulation is started.

PRIMING.

The roof slab shall first receive a coat of B.P. Asphalt Primer. Where coal tar pitch is used, primer is not required.

APPLICATION OF ROOF INSULATION.

1. The roof insulation shall be Insul-Board Roof Insulator (size 2' x 5') as manufactured in Canada by Building Products Limited, of a density not exceeding 22 lbs. per cubic foot, furnished and applied by the Roofing Contractor in layers having a combined thickness of inches.
2. Remove the ship-lap from one edge of starter course of Insul-Board Roof Insulator so that the full thickness of Insul-Board as specified shall be obtained over the whole area. This shall also be done at the ends of courses and wherever sheets meet vertical projections, etc.
3. Over the roof area apply a mopping of hot asphalt or coal tar pitch, using not less than 30 lbs. per 100 sq. ft. into which, while hot, the sheets of Insul-Board shall be embedded. This mopping shall be carried up the parapet wall at least 3" above cant strip.

NOTE: On inclines exceeding 1" in 1' 210° m.p. asphalt compound shall be used.

4. Complete adhesion of the Insul-Board shall be obtained by carefully pressing down all edges of the sheets into the mopping of hot asphalt or coal tar pitch. All edges of Insul-Board shall be completely coated. The sheet shall be cut to fit neatly at all walls and around all projections in the roof deck with the edges of sheets in moderate contact and shall not be crowded or forced into place.
5. Carry the Insul-Board up to all vertical projections placing cant strip over the Insul-Board.
6. **NOTE:** When the total thickness of Insul-Board is to be applied in one layer this clause 6 should be omitted.

The top surface of each layer shall be coated with a uniform mopping of hot asphalt or coal tar pitch and all sheets shall be thoroughly embedded, and shall be laid with joints broken

or offset, with respect to the joints of the preceding layer, and all edges of the sheet shall be completely coated. Alternate layers shall run parallel to each other and at no time shall sheets be laid with alternate layers at right angles or crosswise to each other.

7. Only as much Insul-Board shall be laid in one day as can be covered the same day with roofing membrane. At the end of each day's work all exposed edges shall be sealed over with a strip of saturated felt temporarily mopped into place.

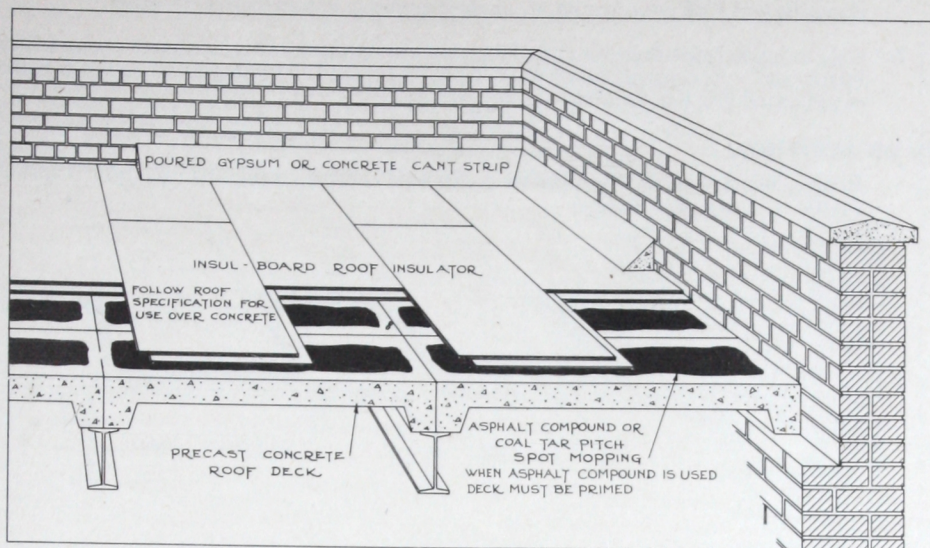
APPLICATION OF ROOFING.

Roofing membrane shall be applied in accordance with roofing manufacturer's specification for use over concrete decks.



INSUL-BOARD ROOF INSULATION

IB. 3



For Use Over Precast Slabs

ROOF DECK.

The roof deck shall be smooth, firm, and dry, free from loose material, debris, ice and snow. The finished surface of the deck shall be subject to the approval of the Architect or Engineer and acceptable to the Building Products Limited Inspector, before the work of roof insulation is started.

PRIMING.

The roof slab shall first receive a coat of B.P. Asphalt Primer. Where coal tar pitch is used, primer is not required.

APPLICATION OF ROOF INSULATION.

1. The roof insulation shall be Insul-Board Roof Insulator (size 2' x 5') as manufactured in Canada by Building Products Limited, of a density not exceeding 22 lbs. per cubic foot, furnished and applied by the Roofing Contractor in layers having a combined thickness of inches.
2. Remove the ship-lap from one edge of a starter course of Insul-Board Roof Insulator so that the full thickness of Insul-Board as specified shall be obtained over the whole area. This shall also be done at the ends of courses and wherever sheets meet vertical projections, etc.
3. Spot or strip mop each slab with asphalt or coal tar pitch keeping the mopping well back from all edges of slabs to avoid any danger of dripping through joints, into which, while hot, the sheets of Insul-Board shall be embedded.

NOTE: On inclines exceeding 1" in 1' 210° m.p. asphalt compound shall be used.

4. Complete adhesion of the Insul-Board shall be obtained by carefully pressing down all edges of the sheets into the mopping of hot asphalt or coal tar pitch. All edges of Insul-Board shall be completely coated. The sheet shall be cut to fit neatly at all walls and around all projections in the roof deck with the edges of sheets in moderate contact and shall not be crowded or forced into place.
5. Carry the Insul-Board up to all vertical projections placing cant strip over the Insul-Board.
6. **NOTE:** When the total thickness of Insul-Board is to be applied in one layer this clause 6 should be omitted.

The top surface of each layer shall be coated with a uniform mopping of hot asphalt or coal tar pitch and all sheets shall be thoroughly embedded, and shall be laid with joints broken or offset, with respect to the joints of the preceding layer, and all edges of the sheet shall be

completely coated. Alternate layers shall run parallel to each other and at no time shall sheets be laid with alternate layers at right angles or crosswise to each other.

7. Only as much Insul-Board shall be laid in one day as can be covered the same day with roofing membrane. At the end of each day's work all exposed edges shall be sealed over with a strip of saturated felt temporarily mopped into place.

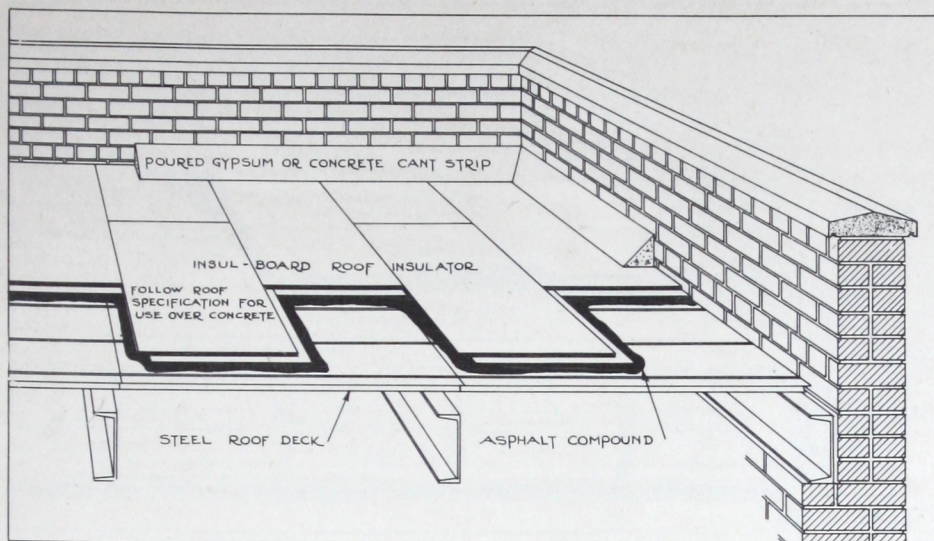
APPLICATION OF ROOFING.

Roofing membrane shall be applied in accordance with roofing manufacturer's specification for use over concrete decks.



INSUL-BOARD ROOF INSULATION

IB. 4



For Use Over Steel Roof Deck

ROOF DECK.

The roof deck shall be rigid, smooth, dry, free from loose material, debris, ice and snow. The finished surface of the deck shall be subject to the approval of the Architect or Engineer and acceptable to the Building Products Limited Inspector before the work of roof insulation is started.

APPLICATION OF ROOF INSULATION.

1. The roof insulation shall be Insul-Board Roof Insulator (size 2' x 5') as manufactured in Canada by Building Products Limited, of a density not exceeding 22 lbs. per cubic foot, and applied by the Roofing Contractor in..... layers, having a combined thickness of inches.
2. Remove the ship-lap from one edge of starter course of Insul-Board Roof Insulator so that the full thickness of Insul-Board as specified shall be obtained over the whole area. This shall also be done at the ends of courses and wherever sheets meet vertical projections, etc.
3. The entire surface of the roof deck shall be mopped solid with hot asphalt, into which, while hot, the sheets of Insul-Board shall be embedded.
4. Complete adhesion of the Insul-Board shall be obtained by carefully pressing down all edges of the sheets into the mopping of hot asphalt. All edges of Insul-Board shall be completely coated. The sheet shall be cut to fit neatly at all walls and around all projections in the roof deck, with the edges of sheets in moderate contact, and shall not be crowded or forced into place.
5. Carry the Insul-Board up to all vertical projections, placing cant strip over the Insul-Board.
6. **NOTE:** When the total thickness of Insul-Board is to be applied in one layer, this clause 6 should be omitted.
The top surface of each layer shall be coated with a uniform mopping of hot asphalt and all sheets shall be thoroughly embedded, and shall be laid with joints broken or offset, with respect to the joints of the preceding layer, and all edges of the sheet shall be completely coated. Alternate layers shall run parallel to each other and at no time shall sheets be laid with alternate layers at right angles or crosswise to each other.
7. Only as much Insul-Board shall be laid in one day as can be covered the same day with roofing membrane. At the end of each day's work all exposed edges shall be sealed over with a strip of saturated felt, temporarily mopped into place.

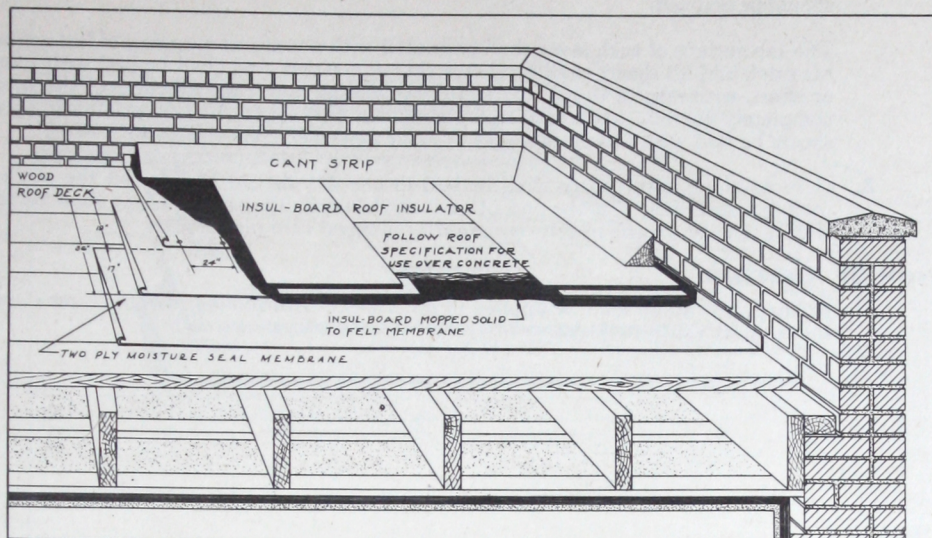
APPLICATION OF ROOFING.

Roofing membrane shall be applied in accordance with roofing manufacturer's specification for use over concrete decks.



INSUL-BOARD ROOF INSULATION

IB. 5



For Use Over Wood Decks with Moisture Seal Membrane For high humidity conditions only

ROOF DECK.

The roof deck shall be seasoned lumber, firm, smooth and free from loose boards, large cracks, knot holes and loose material, dry and free from debris, ice and snow.

Over the entire surface of roof deck lay two (2) plies of 15# asphalt felt or 15# tarred felt lapping each sheet nineteen (19) inches over preceding one and nailing along lower edge of sheets every twenty-four (24) inches.

APPLICATION OF ROOF INSULATION.

1. The roof insulation shall be Insul-Board Roof Insulator (size 2' x 5') as manufactured in Canada by Building Products Limited, of a density not exceeding 22 lbs. per cubic foot, furnished and applied by the Roofing Contractor in layers, having a combined thickness of inches.
2. Over the moisture seal apply a mopping of hot asphalt or coal tar pitch using not less than 30 lbs. per 100 sq. ft. into which, while hot, the sheets of Insul-Board shall be embedded. This mopping shall be carried up the parapet wall at least 3" above cant strip.

NOTE: On inclines exceeding 1" in 1', asphalt compound shall be used.

3. Remove the ship-lap from one edge of starter course of Insul-Board Roof Insulator so that the full thickness of Insul-Board as specified shall be obtained over the whole area. This shall also be done at the ends of courses and wherever sheets meet vertical projections, etc.
4. Complete adhesion of the Insul-Board shall be obtained by carefully pressing down all edges of the sheets into the mopping of hot asphalt or coal tar pitch. All edges of Insul-Board shall be completely coated. The sheets shall be cut to fit neatly at all walls and around all projections in the roof deck with the edges of sheets in moderate contact and shall not be crowded or forced into place.
5. Each sheet of Insul-Board Roof Insulator shall be nailed in place with large headed roofing nails $\frac{3}{4}$ " longer than the total thickness of the Insul-Board. The field of the sheet shall be nailed first using not less than one nail per square foot of area, the nails to be evenly distributed over the face of the sheet. The sheets shall then be nailed on 8" centres $\frac{1}{2}$ " from all edges.
6. Carry the Insul-Board up to all vertical projections placing cant strip over the Insul-Board.

7. **NOTE:** When the total thickness of Insul-Board is to be applied in one layer this clause 7 should be omitted.

The top surface of each layer shall be coated with a uniform mopping of hot asphalt or coal tar pitch and all sheets shall be thoroughly embedded, and shall be laid with joints broken or offset, with respect to the joints of the preceding layer, and all edges of the sheet shall be completely coated. Alternate layers shall run parallel to each other and at no time shall sheets be laid with alternate layers at right angles or crosswise to each other.

8. Only as much Insul-Board shall be laid in one day as can be covered the same day with roofing membrane. At the end of each day's work, all exposed edges shall be sealed over with a strip of saturated felt, temporarily mopped into place.

APPLICATION OF ROOFING.

Roofing membrane shall be applied in accordance with roofing manufacturer's specification for use over concrete decks.

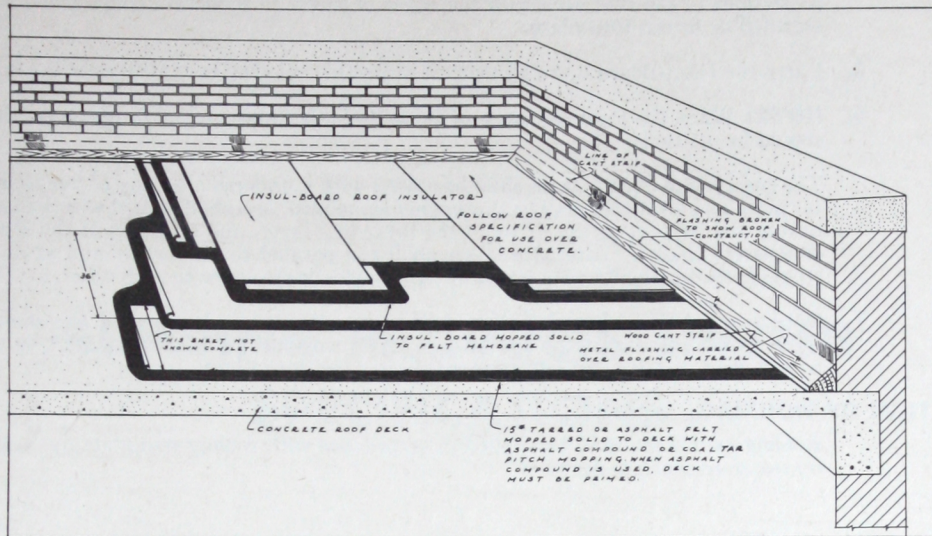


BUILDING PRODUCTS SPECIFICATION

INSUL-BOARD ROOF INSULATION

Specification

IB. 6



For Use Over Poured Concrete or Poured Gypsum Decks With Moisture Seal Membrane

For High Humidity Conditions Only

ROOF DECK. The roof slab shall be smooth, firm, dry and well cured and the surface of the roof free from loose material, debris, ice and snow. The finished surface of the slab shall be subject to the approval of the Architect or Engineer and acceptable to the Building Products Limited Inspector before the work of roof insulation is started.

PRIMING. The roof slab shall first receive a coat of B.P. Asphalt Primer. Where coal tar pitch is used, primer is not required.

MOISTURE SEAL. Mop the entire roof area with asphalt or coal tar pitch into which, while hot, lay one (1) ply of 15# asphalt felt or 15# tarred felt, lapping each sheet not less than four (4) inches over preceding one. Carry the moisture seal up on vertical projections to meet roofing under flashing.

APPLICATION OF ROOF INSULATION.

1. The roof insulation shall be Insul-Board Roof Insulator (size 2' x 5') as manufactured in Canada by Building Products Limited, of a density not exceeding 22 lbs. per cubic foot, and applied by the Roofing Contractor in layers, having a combined thickness of inches.
2. Remove the ship-lap from one edge of starter course of Insul-Board Roof Insulator so that the full thickness of the Insul-Board as specified shall be obtained over the whole area. This shall also be done at the ends of courses and wherever sheets meet vertical projections, etc.
3. Over the moisture seal apply a mopping of hot asphalt or coal tar pitch using not less than 30 lbs. per 100 sq. ft. into which, while hot, the sheets of Insul-Board shall be embedded. This mopping shall be carried up the parapet wall at least 3" above cant strip.

NOTE: On inclines exceeding 1" in 1', asphalt compound shall be used.

4. Complete adhesion of the Insul-Board shall be obtained by carefully pressing down all edges of the sheets into the mopping of hot asphalt or coal tar pitch. All edges of Insul-Board

shall be completely coated. The sheet shall be cut to fit neatly at all walls and around all projections in the roof deck with the edges of sheets in moderate contact and shall not be crowded or forced into place.

5. Carry the Insul-Board up to all vertical projections placing cant strip over the insulation.
6. **NOTE:** When the total thickness of Insul-Board is to be applied in one layer this clause 6 should be omitted.

The top surface of each layer shall be coated with a uniform mopping of hot asphalt or coal tar pitch and all sheets shall be thoroughly embedded, and shall be laid with joints broken or offset, with respect to the joints of the preceding layer, and all edges of the sheet shall be completely coated. Alternate layers shall run parallel to each other and at no time shall sheets be laid with alternate layers at right angles or crosswise to each other.

7. Only as much Insul-Board shall be laid in one day as can be covered the same day with roofing membrane. At the end of each day's work all exposed edges shall be sealed over with a strip of saturated felt temporarily mopped into place.

APPLICATION OF ROOFING.

Roofing membrane shall be applied in accordance with roofing manufacturer's specification for use over concrete decks.



BUILDING PRODUCTS LIMITED SPECIFICATIONS

SECTION 7

REQUIREMENTS FOR APPLYING BUILT-UP ROOFS

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REQUIREMENTS FOR APPLYING BUILDING PRODUCTS LIMITED

BONDED ROOFS

Condition and Preparation of Roof Decks

WOOD DECKS

FIRST.

- (a) All boards must have a solid bearing on rafters, and must be securely nailed in place. A deck shall not be acceptable if the roof boards bend perceptibly under an average man's weight. Cracks wider than one-eighth ($\frac{1}{8}$) inch or knot holes larger than one-half ($\frac{1}{2}$) inch in diameter must be covered with metal, securely nailed on the four (4) corners.
- (b) The roof surfaces must be smooth and shall be swept clean of all loose materials before roofing application begins.

OVER OLD ROOFS

- (c) All exposed nails shall be drawn or driven home solidly into deck. Rotten or weakened boards, in all cases, must be replaced to a firm condition. Covering with metal shall not be permitted.
- (d) If the old roof has gravel or slag finish, and a smooth surface roof is to be applied, the old roof must be completely removed down to board deck. If the old roof has gravel or slag finish, and a new gravel surface roof is to be applied, all the old pitch and gravel, dust and dirt must be scraped and broomed clean, leaving the old felt surface smooth and free from dirt or dust. If the felts show signs of being dried out, or appear to have a fuzzy surface, then all the old gravel surfaced roofing must be completely removed down to board deck.
- (e) If the old roof is of a Built-Up Asphalt construction, and a Tarred Felt, Coal Tar Pitch and Gravel Surfaced roof is to be applied, all blisters or loose sections of membrane must be cut and peeled off, so as to have a smooth, uniform surface on which to apply the new roof. All sections where blisters or loose sections have been peeled off shall be covered with two (2) plies of 15# Tarred or Asphalt Felt laid dry over these sections and securely nailed in place. Where the old roof shows serious splitting and buckling of the membrane, same shall be completely removed down to board deck.
- (f) If the old roofing is composed of metal, all old metal shall be removed.
- (g) When applying any Building Products Limited Bonded Roofs over old smooth surface roof, follow the specifications for use over concrete decks.

NEW POURED CONCRETE, HAYDITE AND GYPSUM DECKS

A concrete, haydite or gypsum deck will not be acceptable if it is either wet or frozen. If the surface has sharp or abrupt edges or depressions, it must be made smooth by filling up all the low spots with cement mortar, haydite or gypsum, as the case may be. All high spots or ridges must be chiselled off smooth. The decks must be broomed clean of all loose materials, dust and dirt.

OVER INSULATION

When applying Building Products Limited Bonded Roofs follow the specification for use over concrete in all cases.

When applying Building Products Limited Bonded Roofs over Insulation, on inclines exceeding one (1) inch in one (1) foot, felts shall be nailed along upper edge of sheets not more than three (3) feet apart.

Where insulation is laid over old roof coverings, it shall be nailed or mopped into place, nailing according to requirements of Insul-Board specifications.

MATERIALS

Only such materials as specified in Building Products Limited specifications will be accepted on Building Products Limited Bonded Roofs.

Where primer is used and requires thinning, use only gasoline or benzine. Kerosene is not permitted.

Where flat tin caps are used with nailing, they shall not be less than one (1) inch in diameter. Nails should have heads five-eighths ($\frac{5}{8}$) inch in diameter.

GRAVEL AND SLAG

Gravel or slag must be of one-quarter ($\frac{1}{4}$) inch to five-eighths ($\frac{5}{8}$) inch in size, dry and free from dirt, dust or sand. Frozen or wet gravel or slag must be thoroughly heated and dried before application.

In some areas, substitute materials such as crushed limestone or crushed granite rock are available in place of gravel or slag. Under no circumstances shall such materials be used on Building Products Limited Bonded Roofs, as the crushed limestone gives off too much dust, which prevents proper embedding into pitch. The crushed granite rock chips are too sharp on edges to be used with safety, and will puncture the roof membrane under ordinary traffic conditions.

LAYING OF FELT

The laying of all roofing felts shall be started at the hoppers or low points of the roof. Application of felts permitting water to run against the laps shall not be permitted.

All roofing felt, flashing strips, etc., shall be rolled into the hot moppings directly behind mop, and firmly embedded by brooming the felts. Dropping felts into hot moppings is not permitted. All end laps shall be not less than six (6) inches.

When roofing membrane is laid in sections, all end laps where sections join, shall be double felt stripped with two (2) plies of 15# Asphalt Felt or 15# Tarred Felt, mopped solid. Felt strips to be 18" and 36" wide.

NAILING

Where nailing is specified, follow directions carefully. Nailing provides added security where and when most needed. It is specified for that reason.

PRECAST CONCRETE, HAYDITE OR GYPSUM SLABS

The slabs must be dry and set even on bearing points of roof joists. If any ridges or depressions are showing, these must be levelled off before proceeding with the application of new roofing. New roofing shall be in accordance with Building Products Limited Specification as written for use over Precast Concrete, Haydite or Gypsum Slabs.

STEEL DECKS

See Building Products Limited Specification covering B.P. Bonded Roofs on Steel Decks over Insulation.

If the incline of the steel deck is under three (3) inches per foot, the insulation shall be mopped solid to deck with B.P. 210° m.p. Asphalt Compound.

If the deck is painted, no primer is required.

If the incline of deck is over three (3) inches per foot, insulation must be secured in place by metal clips, or other satisfactory method.

Under no conditions shall Building Products Limited bond any roof over steel decks unless one (1) thickness of one (1) inch Rigid Roof Insulation Board is first installed.

ROOF INSULATION

Insulation materials of a soft, spongy nature shall not be considered as an acceptable roof deck. It shall be firm, so as to retain nails and hold felts in place. It must withstand foot traffic without crushing.

Insulation must be thoroughly dry at all times before being applied. No more insulation shall be laid at one time than can be immediately covered by the laying of the roof membrane. Wet or damp insulation must be rejected as a satisfactory roof base.

A felt cut-off must be mopped in over the edge of roofing and over the insulation when workmen leave at the end of the day's work, or due to weather conditions. This requirement must be rigidly followed.

It is strongly recommended that a moisture-proof course be installed between roof decks and insulating material. On Wood and Gypsum decks this course shall consist of two (2) plies of 15# Tarred or Asphalt Felt, lapping each sheet nineteen (19) inches over preceding one, and nailing in place every twenty-four (24) inches. On Concrete or Haydite decks, moisture-proof course shall be one (1) ply of 15# Tarred or Asphalt Felt mopped solid to concrete or haydite with Coal Tar Pitch or Asphalt Compound.

After moisture-proof course has been laid, insulation shall be mopped in solid with Coal Tar Pitch or Asphalt Compound, depending on incline of roof. Use pitch up to one (1) inch in one (1) foot, and asphalt from one (1) inch in one (1) foot up to six (6) inches in one (1) foot.

NOTE.

Where B.P. Insul-Board Roof Insulator is used, due to its waterproofing qualities, the preceding paragraphs do not apply, except where high humidity conditions exist.

HEATING PITCH AND ASPHALT

Pitch shall not be heated above four hundred (400) degrees Fahrenheit. When the white vapour from the kettle turns yellow, pitch has reached the flash point. Fire should be drawn and cold pitch added to kettle.

Asphalt shall not be heated above four hundred and fifty (450) degrees Fahrenheit.

APPLYING GRAVEL OR SLAG

Gravel or slag shall be placed in rows on roof on sections which have been first poured or mopped. They shall not be placed over bare felts at any time.

APPLYING TOP COATING OF PITCH OR ASPHALT

No more pitch shall be poured at any one time than can be immediately covered with gravel or slag.

Not more than twenty (20) pounds of asphalt compound shall be used per one hundred (100) square feet of completed roof surface. Severe checking will occur when heavier moppings are used.

BONDED FLASHINGS

Follow specifically bonded flashing specifications as written in Building Products Limited Flashing Instructions.

UNBONDED FLASHINGS

Too much importance cannot be placed on the flashing membrane installed with a bonded roof. If the flashing fails, the roof naturally gets the blame. Therefore, it is to our own interests to see that the proper flashing methods are used.

When you are inspecting a Building Products Limited Bonded Roof, the following must be strictly adhered to:

- (a) Where metal cap and base flashings are used over the felts which have been turned up the wall, set in three (3) sheets of felt such as that used in construction of roof. These felts shall be solidly mopped together with hot bitumen, and shall extend up the wall not less than six (6) inches and out on roof not less than four (4) inches. The metal base flashing shall then be set in place over these felts in a hot mopping of bitumen, and nailed every four (4) inches. The flange of base flashing shall then be double felt stripped with two (2) plies of felt mopped solid in place. These felts shall extend out over flange on roof three (3) inches and six (6) inches respectively.
- (b) If the deck is of concrete, and does not permit nailing, or if cork board insulation is used, the felt reinforcement membrane and base flashing shall be installed prior to applying roof. These three (3) sheets of felt shall be mopped in solid to wall and roof with hot bitumen. These sheets shall extend up the face of the wall not less than six (6) inches, and out on roof not less than twenty-four (24) inches.
- (c) The metal base flashing shall then be set in place over reinforcement membrane set in hot bitumen, and firmly fitted into angles of the wall and roof deck. The roofing felts shall then be mopped in solid over flange of base flashing, and cut off at the angle of base flashing.
- (d) Metal cap flashing shall then be installed and fastened in place with flashing hooks and grout, solidly pointed up with plastic cement.

WHERE METAL COUNTER FLASHINGS ARE TO BE INSTALLED

On 20 year felt and pitch roofs, the flashing membrane shall consist of four (4) plies of 15# tarred felt mopped in solid with coal tar pitch. Felts shall extend up the face of the wall not less than six (6) inches or four (4) inches above top of cant, and shall extend out on roof from bottom of cant not less than four (4) inches. Each sheet shall overlap the preceding one not less than one (1) inch. Flashing strips shall be nailed into mortar joint nearest flashing grout with one and one-half (1½) inch barbed roofing nails spaced twelve (12) inches apart. Flashing strips shall be laid without wrinkles or buckles.

NOTE. 15 year roofs require three (3) ply membrane.
10 " " " two (2) " "

Metal counter flashing shall then be set in place in flashing grout and fastened with flashing hooks, spaced not more than three (3) feet apart. Flashing grout shall then be pointed up with plastic cement.

NOTE. Where asphalt built-up roofs are used, same procedure shall be followed, except asphalt felt and asphalt compound shall be used. Over the base of flashing felts shall be mopped one (1) ply of 15# asphalt felt, with top surface coated with asphalt. Walls shall be coated with asphalt primer.

GRAVEL STOPS, EAVE IRONS, GUTTERS, HOPPERS, SCUPPERS, LEADER HEADS, VENTS, ETC.

All the above mentioned parts of roof construction must be provided with flashing flanges not less than four (4) inches wide. These shall be set in place only after all plies of roofing membrane have been laid. These shall be set in a hot mopping of bitumen, nailed solid and double felt stripped with two (2) plies of 15# tarred or asphalt felt, mopped solid over flange. Felts shall extend out over flange not less than six (6) inches from outer edge.

BONDING CHARGES

20 year Bonded Roof.....	\$ 0.75 per square
15 year Bonded Roof.....	.60 per square
10 year Bonded Roof.....	.50 per square
Minimum Bonding Charge.....	\$15.00



BUILDING PRODUCTS LIMITED

RU-BER-OID

BIRD

VULCANITE

B.P. ASPHALT SHINGLES

Standard Thick Butt Twin
Vee Lok

Individual

3-In-1 Standard Thick Butt
Tru-Lok

B.P. INSUL-ATED SIDINGS

Insul-Bric Siding

Mine and Industrial Siding

B.P. ROLL ROOFINGS

Smooth Surfaced Roofing

Brown Band
Green Band
Red Band

Brown Seal
Green Seal
Red Seal

Durite
Hi-Grade
Alligator

Coloured Roofing

Brown Band

Brown Seal

Durite

SLATE SURFACED ROOFING

B.P. BUILDING PAPERS

Sovereign

Super Light

House 1/2 Ply

Carpet Felts

Dry and Saturated Sheathings
Neponset Black Insulating Paper

Building Papers

B.P. BUILT-UP ROOFING MATERIALS

Coal Tar
Base Sheet

Saturated Felts
N.I.S. Roofing (19" Selvage Edge)
Roofing Sundries

Coal Tar Pitch
Asphalt Compound

B.P. SPECIALTY PRODUCTS

Plastic Cement
Roof Coatings

Utility Paints
Priming and Waterproofing Materials

Caulking Compound
Preservatives

B.P. INSULATION

Insul-Board Panels

Insul-Board Roof Insulator
Insul-Board Liner

Insul-Board Lath

PREMOULDED ASPHALT PRODUCTS

Industrial Flooring

B.P. Asphalt Tile Flooring

Expansion Joint

ROOFING

SIDING

INSULATION

FLOORING





